



**LAB CON CO<sup>®</sup>**

laboratory equipment  
and apparatus



# What is LABCONCO®?

LABCONCO is the trade name for apparatus and equipment produced by the LABCONCO CORPORATION (formerly Laboratory Construction Co.) of Kansas City, Missouri, and sold by authorized laboratory supply dealers throughout the world.

LABCONCO was the first to introduce the molded, mass-produced fiberglass fume hood early in 1961. Since then, the line has been broadened, expanded and technologically improved. LABCONCO, today, remains the only manufacturer of quality, *one-piece, molded*, fiberglass fume hoods.

This new catalog introduces the complete, new line

of LABCONCO Fume Hoods. You will also find LABCONCO's complete line of Fiberglass Glove Boxes, which were introduced in 1965. In addition, this catalog presents the latest, most complete line of LABCONCO Tissue Culture Hoods, Carts, Kjeldahl Distillation and Digestion apparatus, Micro Kjeldahl Distillation and Digestion units, Crude Fiber Extractors, Goldfish Solvent Extractors, and related items.

Over 42 years of LABCONCO manufacturing experience and product research assure you of the quality and features which modern science expects in the tools of its work.

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# Fiberglass, the perfect material for your laboratory equipment! Here's why:

LABCONCO fume hoods, glove boxes and tissue culture hoods are manufactured of polyester resins reinforced with glass fibers. This material, with LABCONCO's unique poly laminate construction technique, provides you with one-piece, strong, porcelain-

like surfaces, inside and out, that are non-porous, chemical resistant and fire retardant. The superior strength of poly laminate construction also eliminates the need for bulky side walls that take up your valuable space inside and outside the equipment.

## QUICK AND EASY TO CLEAN



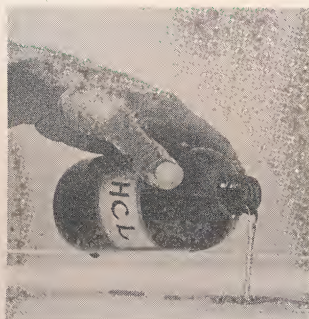
There are no sharp corners in LABCONCO laboratory equipment. The one-piece, porcelain-like fiberglass surface and gently coved corners, inside and out, can be wiped clean, sterilized or decontaminated quickly and easily by simply wiping with a sponge or cloth. There are no joints, cracks or hard-to-reach spots to collect undesirable residue.

## LIGHTWEIGHT



The lightness of fiberglass not only cuts down on your shipping costs, it also means easier handling in the lab. It is easy to pick up and move LABCONCO fiberglass equipment. You can rearrange your lab at any time with little trouble, or cost.

## CORROSION-RESISTANT



Fiberglass reinforced polyester is chemically inert and corrosion-resistant.

## CHEMICAL RESISTANCE

TEST: Immerse 1"x4" specimen in 100% vapor of the concentrated, boiling reagent 30 minutes.

REAGENT VAPORS	SATISFACTORY FOR UNLIMITED SERVICE	SATISFACTORY FOR OCCASIONAL LIMITED SERVICE	DISCOLORATION (Slightly)	UNSATISFACTORY
Sulfuric Acid	X		X	
Hydrochloric Acid	X			
Nitric Acid	X		X	
Chloroform	X			
Acetone	X			
Benzene	X			
Petroleum Ether	X			
Ammonia	X			
Acetic Acid	X			
Perchloric Acid				X
Hydrofluoric Acid		X	X	
Hydrogen Peroxide	X		X	
Peracetic Acid	X			
Osmic Acid	X			
Formaldehyde	X			

LABCONCO fiber glass laboratory equipment is not suitable for use with perchloric acid.

## RUGGED

LABCONCO laboratory equipment is solidly constructed of a special corrosion-proof polyester reinforced with glass fibers. The unique bonded double-wall construction gives you added strength and smooth surfaces, inside and out.

## CUTS YOUR MAINTENANCE COSTS

Since LABCONCO laboratory equipment is made of fiberglass, there is no paint to peel or crack, no metal to corrode, no wood or transite to absorb chemicals or fumes. No metal. No problems.

## FIRE RETARDANT



The fiberglass used in the construction of LABCONCO laboratory equipment will not support combustion. FLAMMABILITY TEST: Tested for fire retardance under the provisions of Tentative Method of Test for Flammability of Rigid Plastic Over 0.050 Inch Thickness. ASTM designation is D635-63.

## EASY TO MODIFY

Simple woodworking hand tools are all that you need to modify LABCONCO laboratory equipment. Add accessories or take them out. It is as simple as working with wood.

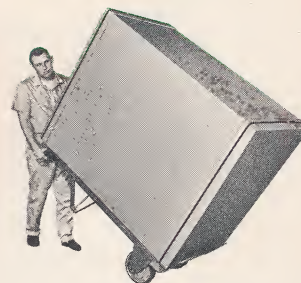
## CUTS YOUR COSTS

The fiberglass construction of LABCONCO laboratory equipment permits mass production methods. This means uniform quality and substantial savings to you.

## MODERN, STREAMLINED DESIGN

Laboratory equipment actually complements and accents the appearance of your lab. Makes every lab look modern and up-to-date.

## COMPLETELY FACTORY ASSEMBLED



All LABCONCO laboratory equipment is shipped to you completely assembled. All wiring, lights, switches, filters, valves, motors, blowers, and other equipment are factory installed. No installation costs or assembly delays. All you do is plug in and go to work.



## LABCONCO FIBERGLASS FUME HOODS

Custom built fiberglass fume hoods had been used successfully in many prominent laboratories. Early in 1961, LABCONCO became the first manufacturer to produce a standard, quantity-produced fiberglass fume hood. This was the Fiberglass-47 Fume Hood, which is being used in every conceivable type of laboratory today. Many customers (including leading universities and industrial firms) have reordered frequently and now have 10, 20, 30 or more in use.

With the publication of this catalog, LABCONCO now offers a wide and complete selection of fume hoods in sizes 28 inches wide, 47 inches wide, 70 inches wide; each available in several models with a selection of optional equipment. Complete information on the entire line of LABCONCO Fiberglass Fume Hoods may be found on the following pages.

- FIBERGLASS-28 — *basic small hood*
- STANDARD FIBERGLASS-47 and 70
- FIBERGLASS-47 and 70 WITH INDUCED AIR
- FIBERGLASS ADVANCE-70
- SERVICE FIXTURES
- MATCHING CABINETS AND TABLES
- PLASTIC PIPE AND SPIRAL TUBING FOR VENTING





## FIBERGLASS-28 FUME HOOD

With the LABCONCO Fiberglass-28 Fume Hood, you can provide your lab with a full-duty, *portable* fume hood for under \$300.00. Many labs in schools, hospitals, clinics and industry that can't squeeze in a large hood, have put the Fiberglass-28 into service. It's light, movable, easily installed and convertible to a simple glove box.

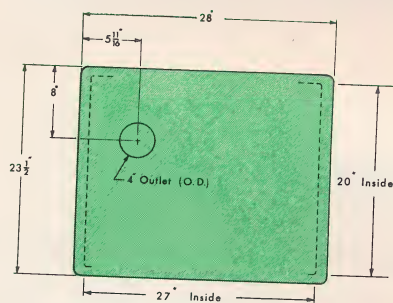
- COSTS ONLY \$295.00 COMPLETE—*ready to plug in and use*
- WEIGHS ONLY 70 LBS.—*easy to install, to move, to ship*
- CHEMICALLY INERT—*no metal to corrode, no paint to chip*
- ATTRACTIVE, RUGGED DESIGN—*makes any lab look modern, up-to-date*
- CONVERTIBLE *to simple glove box*



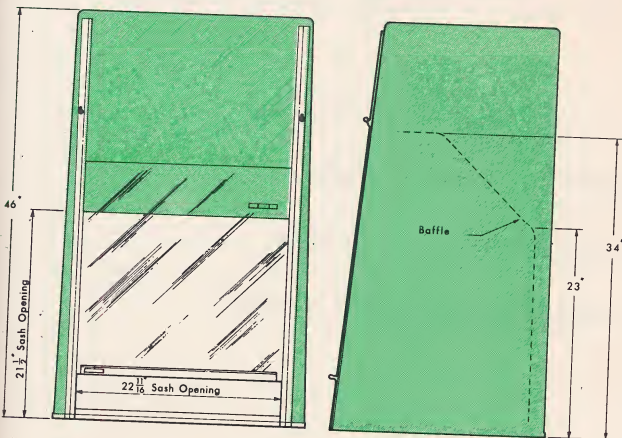
# FIBERGLASS-28 FUME HOOD / features

LABCONCO Fiberglass Fume Hoods are manufactured of polyester resins reinforced with glass fibers. This material, with LABCONCO's unique poly laminate construction technique, provides you with a one-piece, strong, porcelain-like surface, inside and out, that is nonporous, chemically resistant and fire retardant. The superior strength of poly laminate construction also eliminates the need for bulky side walls that take up your valuable space inside or outside the fume hood.

## dimensional data



TOP VIEW



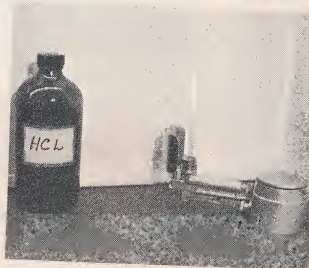
FRONT VIEW

SIDE VIEW



## QUICK AND EASY TO CLEAN

The smooth-as-glass surface and gently coved corners of the one-piece interior—back, sides and top—make wash down quick and easy. There are no joints, cracks or hard-to-reach spots to collect undesirable residue.



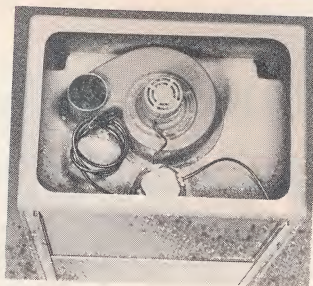
## FIRE AND CHEMICAL RESISTANT

Fiberglass reinforced polyester is chemically inert and corrosion-proof. This material will not support combustion.



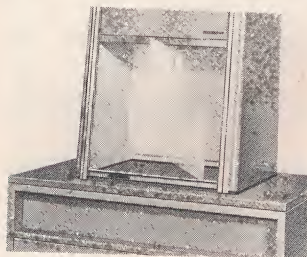
## LIGHTWEIGHT, PORTABLE

The Fiberglass-28 weighs a mere 70 pounds. Cuts your shipping costs. Can be easily installed and moved around by lab personnel with little trouble, no cost.



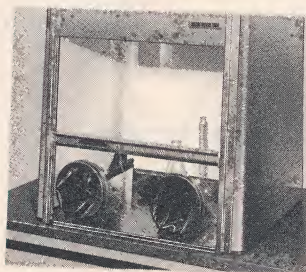
## NON-METALLIC BLOWER

The blower housing and impeller are formed of resistant plastics. No metal to corrode. The quiet, concealed blower operates with a 1/10 HP, 115 volt AC motor and delivers 320 CFM. Exhaust outlet on both models, 4" OD collar.



## ADAPTABLE

The LABCONCO Fiberglass-28 Fume Hood fits on narrow bench tops as well as standard tops. It leaves the front portion available for work.



## USE IT AS A GLOVE BOX

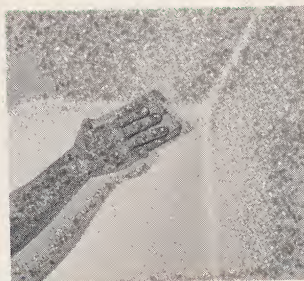
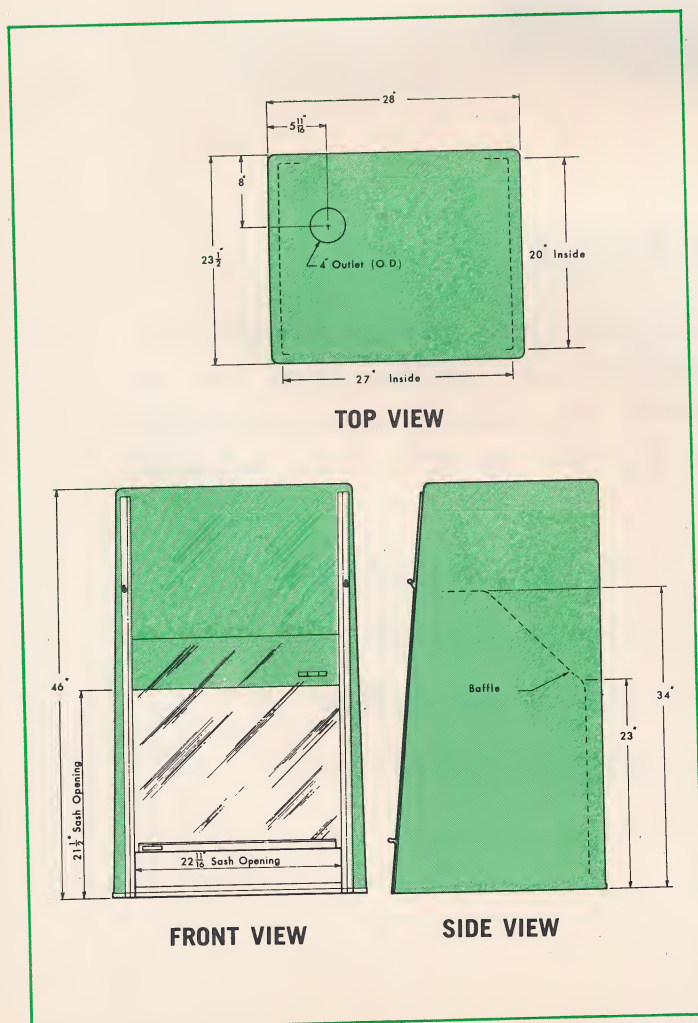
With optional adaptor, the LABCONCO Fiberglass-28 may be used as a simple glove box for certain hazardous or isolation-type operations.



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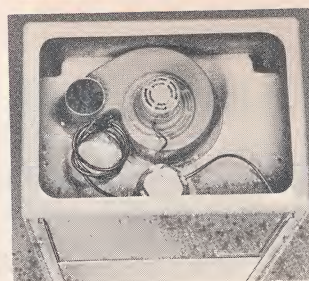


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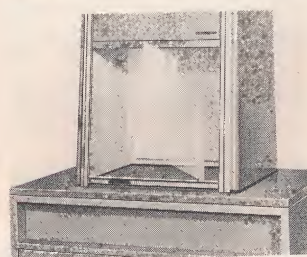
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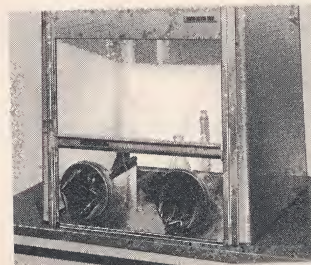
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## USE IT AS A GLOVE BOX

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## FIBERGLASS-28 FUME HOOD / *features*

### **ATTRACTIVE, RUGGED DESIGN**

Makes any laboratory look modern, up-to-date. Will stand years of hard service. Sides impregnated with color. Will not chip or peel off. Inside is white for easier viewing of work.

### **COUNTER-BALANCED SASH**

Lightweight, shatter-proof  $\frac{1}{4}$ " Plexiglass sash is counter-balanced for smooth fingertip control. Dual weights concealed in rear of hood operate quietly on plastic-coated steel cables and ball bearing nylon sheaves.

### **LIGHT, BRIGHT WORKING AREA**

A 100 watt vapor-proof factory installed light fixture is mounted in the hood. All light is directed into the working area. The non-glare interior and adequate light, minimize operator fatigue.

### **FACTORY WIRED**

The blower and all electrical wiring are located out of the hood cavity and away from possible fume contact. The 7 foot, 3-wire groundable cord and plug make for easy installation. Ready to use when delivered.

### **IDEAL FACE VELOCITY**

The 80 foot per minute face velocity offers full protection with minimum waste of conditioned room air.

### **DECENTRALIZED**

The Fiberglass-28 is great for schools and larger labs where multiple location of hoods is desirable. Get 3 for the price of 1.





# FIBERGLASS-28 FUME HOOD / accessories



## SPIRAL TUBE

For semi-permanent hood installation, this spiral pipe serves very well. It is a highly resistant neoprene impregnated fiberglass reinforced with wire. This pipe bends sharply without kinking or flattening. This type of stack simplifies hood installations.

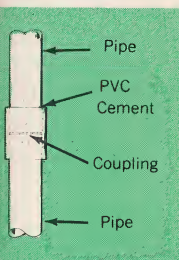
28060	4" Spiral Tube with clamps, 10-ft. section	\$35.00
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## VENT OUTLET

Rigid thermoplastic fitting with 4" O.D. pipe. May be conveniently vented through a window by substituting plexiglass for the window pane and cutting a 4 1/8" hole in the plexiglass to accept the vent outlet.

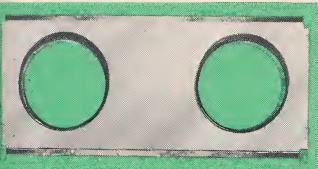
28061	Vent outlet	\$16.50
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## PLASTIC PIPE

Lightweight, resistant plastic pipe is excellent to exhaust the Fiberglass-28 Fume Hood. Connections are simply made by solvent welding. This rigid thermoplastic extruded pipe may be cut without special tools. Its ease of installation more than makes up for the slightly higher initial material cost.

28062	4" Plastic Pipe, 10-ft. section	19 lbs.	\$32.50
28063	4" 90-degree Elbow Coupling	3 lbs.	12.95
28064	4" 45-degree Elbow Coupling	2 lbs.	11.80
28065	4" Straight Coupling	1 1/2 lbs.	4.40



## GLOVE ADAPTOR

A Plexiglass section which may be quickly inserted under the regular sash. This section is fitted with 6" rings for use with either 28051 gloves or 28052 iris.

Catalog Number	Description	Price
28050	Glove Adaptor	\$35.00



Catalog Number	Description
28051	Gloves, Per Pr.

## GLOVES

One-piece seamless neoprene, standard hand size, gauge .015, overall length 27".

Price
\$30.00

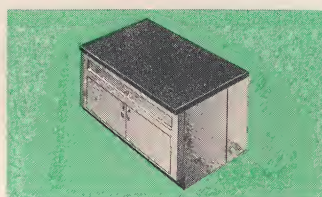


Catalog Number	Description
28052	Iris, Per Pr.

## IRIS

A diaphragm iris of 4 mil vinyl which permits bare hand operation with minimum loss of closure.

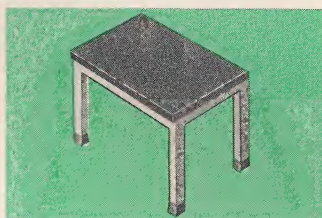
Price
\$3.25



Catalog Number	Description	Ship. Wt.	Price
28054	Supporting Base Cabinet — GREEN	200 lbs.	\$220.00
28055	Supporting Base Cabinet — GRAY		\$220.00

## SUPPORTING BASE CABINET

This 37" high cabinet is designed to support the Fiberglass-28 Fume Hood. Meets steel laboratory furniture specifications and is finished in gray or green to match the hood colors. The working surface is 35" x 30" x 1 1/4" Charcoal Gray Colorlith.



Catalog Number	Description	Ship. Wt.	Price
28068	Supporting Base Table — GREEN	150 lbs.	\$137.00
28069	Supporting Base Table — GRAY		\$137.00

## SUPPORTING BASE TABLE

Designed to support the Fiberglass-28 Fume Hood. Frame is of 2" all welded, square steel tubing with adjustable floor flanges. Height 37". Colors are gray or green to match the hood colors. The working surface is 24" x 30" x 1 1/4" Charcoal Gray Colorlith.

## prices and specifications

28044—**FIBERGLASS-28 FUME HOOD WITH MOTOR AND BLOWER.** 28" wide, 23 1/2" deep, 46" high. Sash to be 1/4" plexiglass counter balanced by two weights operating on plastic coated steel cables. Blower and impeller to be formed of corrosion proof plastics. Motor to be 1/10 hp 115 volt AC. Blower and motor set to deliver 320 cfm. Unit to be shipped completely assembled including motor, blower, sash, 115 volt AC vapor proof light, 7 ft. of 3-wire cord and plug and two switches. The above unit to be one-piece molded fiberglass. The color to be an integral part of the fiberglass, not a painted-on layer. GREEN ..... \$295.00  
28045—Same as above, only GRAY ..... \$295.00  
Shipping Weight 97 Lbs.

28046—**FIBERGLASS-28 FUME HOOD WITHOUT MOTOR AND BLOWER.** 28" wide, 23 1/2" deep, 46" high. Sash to be 1/4" plexiglass counter balanced by two weights operating on plastic coated steel cables. Unit to be furnished without motor and blower, but with a 4" O.D. round outlet collar. Unit to be shipped completely assembled including sash, 115 volt AC, vapor proof light, 7 ft. of 3-wire cord and

plug and one switch. The above unit to be one-piece molded fiberglass. The color to be an integral part of the fiberglass, not a painted-on layer. GREEN ..... \$270.00  
28047—Same as above, only GRAY ..... \$270.00  
Shipping Weight 94 Lbs.

28048—**FIBERGLASS-28 FUME HOOD WITH EXPLOSION-PROOF MOTOR AND BLOWER.** 28" wide, 23 1/2" deep, 46" high. Sash to be 1/4" plexiglass counter balanced by two weights operating on plastic coated steel cables. Blower and impeller to be formed of non-sparking corrosion-proof plastics. Explosion-proof motor UL approved Class I, Group D; Class II, Group E, F, G, 1/20 hp 115 volt AC. Blower and motor set to deliver 320 cfm. Unit does not include a light or explosion-proof switch. Unit to be shipped completely assembled including motor, blower, sash, 7 ft. 3-wire cord and plug and one switch. The above unit to be one-piece molded fiberglass. The color to be an integral part of the fiberglass, not a painted-on layer. GREEN ..... \$375.00  
28049—Same as above, only GRAY ..... \$375.00  
Shipping Wt. 97 lbs.





## FIBERGLASS-47 FUME HOODS

LABCONCO has greatly improved its basic 47" fume hood. The line now consists of a Standard and an Induced Air model, incorporating all the latest concepts in fume hood design.

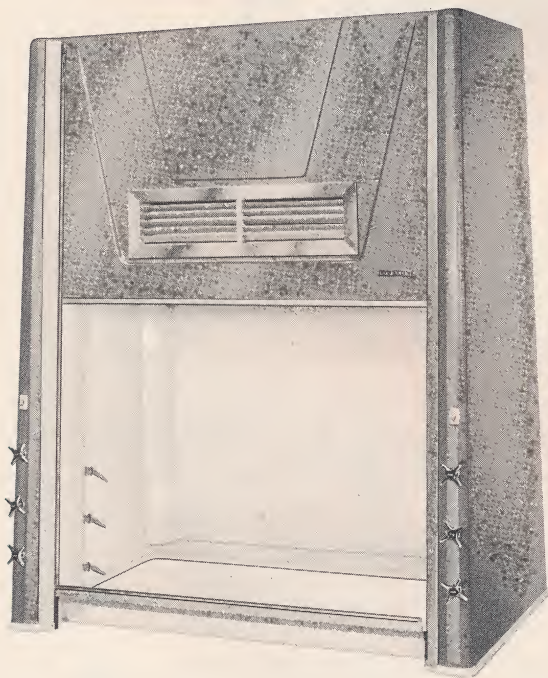
- THE STANDARD-47 — ONLY \$495.00 — *complete and ready to plug in and use*
- THE INDUCED AIR-47 — ONLY \$665.00 — *complete with two motors and blowers and ready to plug in and use*
- NEW OPTION — *both models available with service fixtures installed*
- LIGHTWEIGHT — *easy to install, to move, to ship*
- MAINTENANCE FREE — *no paint to peel or chip; no metal to corrode*
- ATTRACTIVE, RUGGED DESIGN
- ANSWER EVERY NEED — *all hoods available without motors and blowers or with explosion-proof motors and blowers*



# FIBERGLASS STANDARD-47 FUME HOOD / *features*

LABCONCO Fiberglass Fume Hoods are manufactured of polyester resins reinforced with glass fibers. This material, with LABCONCO's unique poly laminate construction technique, provides you with a one-piece, strong, porcelain-like surface, inside and out, that is nonporous, chemically resistant and fire retardant. The superior strength of poly laminate construction also eliminates the need for bulky side walls that take up your valuable space inside or outside the fume hood.

**NOW AVAILABLE —  
Fiberglass Standard-47 Fume Hood  
with service fixtures factory installed —  
ONLY \$645.**

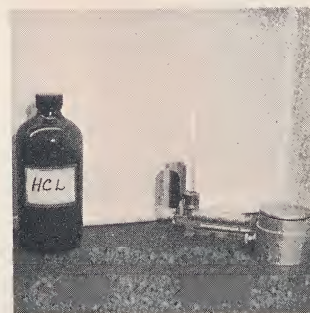


You can obtain the Standard-47 with service fixtures (gas, water, air or vacuum) already installed. The fixtures, 3 on each side, can be operated from the outside of the hood with the sash closed. The plastic coated, serrated tips of the fixtures are located so as not to obstruct face openings. This eliminates the possible danger of the operator inadvertently knocking hose off tips which could cause a serious accident.



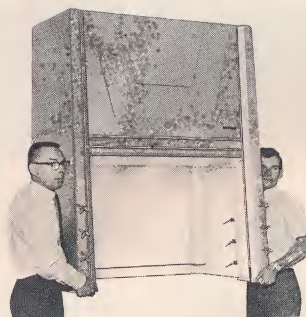
## **QUICK AND EASY TO CLEAN**

The smooth-as-glass surface and gently coved corners of the one-piece interior—back, sides and top—make wash down quick and easy. There are no joints, cracks or hard-to-reach spots to collect undesirable residue.



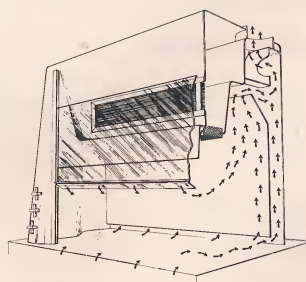
## **FIRE AND CHEMICAL RESISTANT**

Fiberglass reinforced polyester is chemically inert and corrosion-proof. This material will not support combustion.

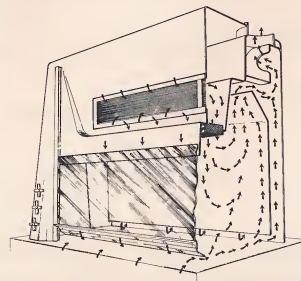


## **LIGHTWEIGHT, PORTABLE**

The Standard-47 weighs only 175 pounds. It can be easily installed or moved around by lab personnel with little trouble, no cost. The hood is designed for mounting on any conventional 47" base cabinet or table—wood or steel.



**AIR FLOW SASH UP**



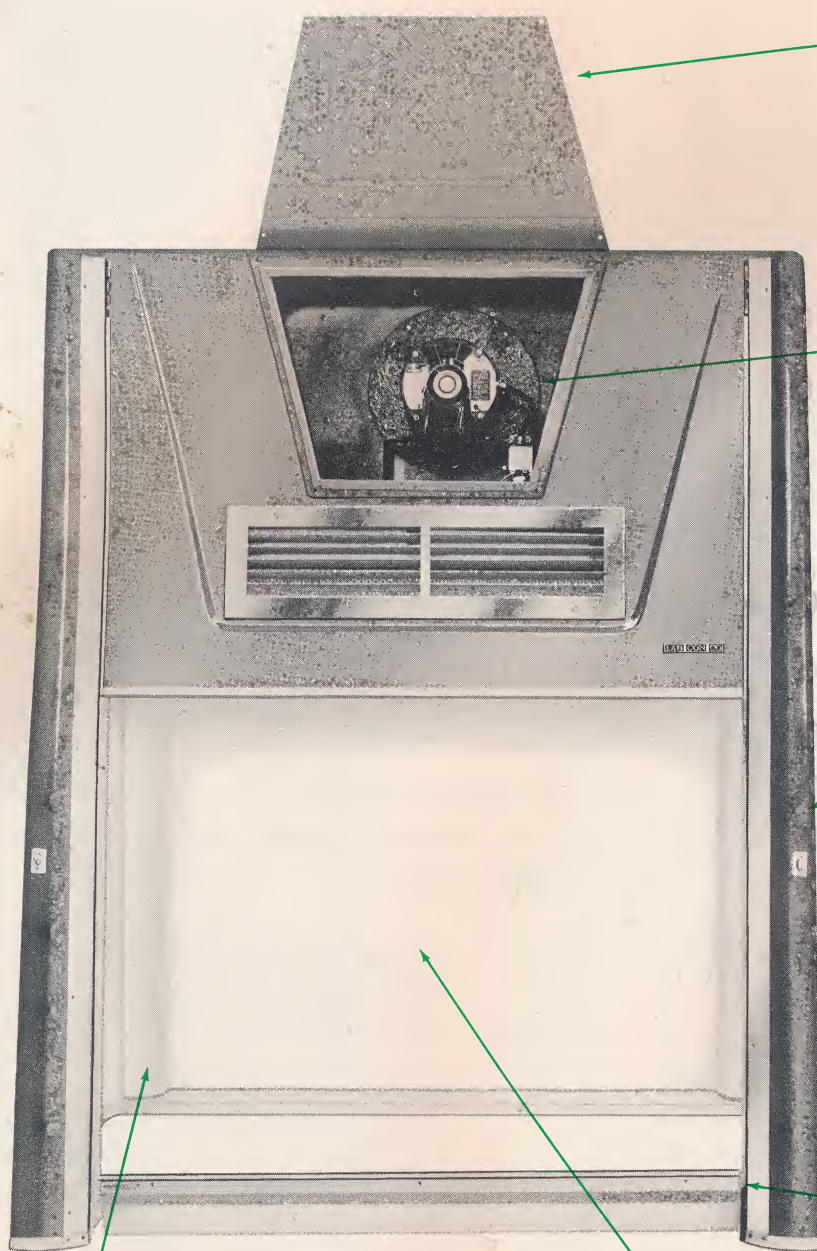
**AIR FLOW SASH DOWN**

## **NEW, AUTOMATIC AIR BY-PASS**

The automatic air by-pass opens as the sash is lowered, keeping a constant face velocity.



## FIBERGLASS STANDARD-47 FUME HOOD / *features*



### **NEW REMOVABLE ACCESS PANEL**

Easily removed front panel provides easy access for inspection and maintenance of motor, blower.

### **NEW, EXTRA-LARGE MOTOR & NON-METALLIC BLOWER**

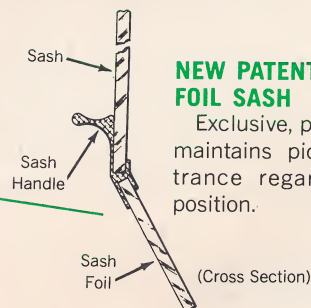
Extra-large  $\frac{1}{3}$  HP 115 volt A.C. motor and blower will deliver 605 cm at  $\frac{1}{4}$  s.p. The blower and motor housing and impeller are formed of resistant resins. No metal to corrode. Will give years of trouble-free service.

### **NEW AIR FOIL DESIGN**

Picture frame face causes air to enter hood in a turbulence-free pattern. Reduces eddies.

### **NEW PATENTED FOIL SASH**

Exclusive, patented foil sash maintains picture frame entrance regardless of sash position.



### **COUNTER-BALANCED PLEXIGLASS SASH**

Lightweight, shatter-proof  $\frac{1}{4}$ " Plexiglass sash is counter-balanced for smooth fingertip control. Dual weights concealed in rear of the hood operate quietly on plastic coated steel cables and ball bearing nylon sheaves.

### **NEW HIGHER FACE VELOCITIES**

LABCONCO's new hoods maintain an 80 feet per minute face velocity with the sash fully open using the standard motor and blower.

### **LIGHT, BRIGHT WORKING AREA**

All light is directed into the working area. The non-glare interior and adequate light minimize operator fatigue.

### **FACTORY WIRING**

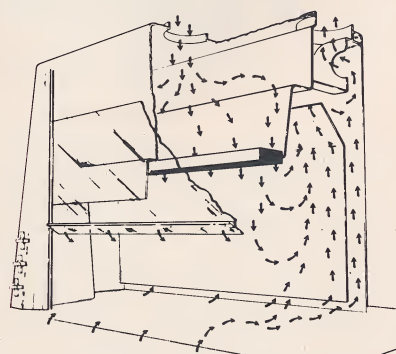
The motor, blower and all electrical wiring are installed at the factory.



# FIBERGLASS INDUCED AIR-47 FUME HOOD / features

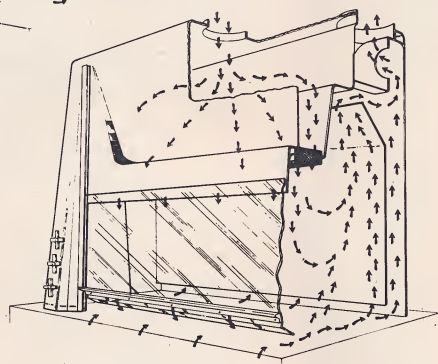
The LABCONCO Fiberglass Induced Air-47 Fume Hood has all the new and exciting features of the Fiberglass Standard-47, except that it also has its own *induced* air supply.

To induce its own air, the Fiberglass Induced Air-47 has an **additional** ¼ hp, 115 volt AC motor and blower that delivers 60% of the exhaust air. The blower and motor housing and impeller are formed of resistant plastics. Will give years of trouble-free service.



**AIR FLOW  
SASH UP**

**AIR FLOW  
SASH DOWN**



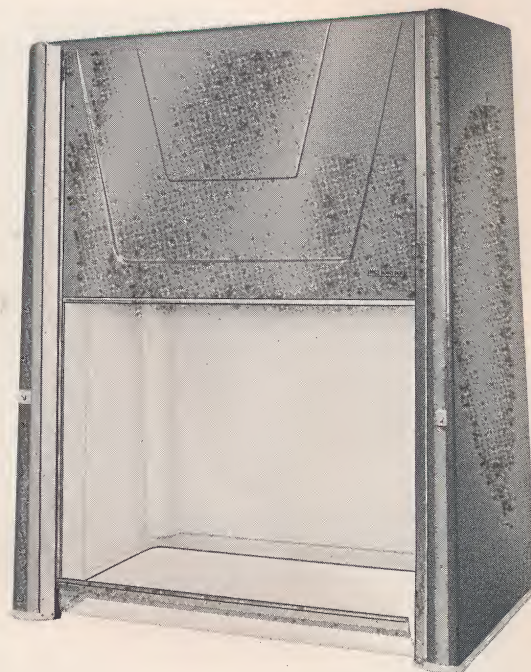
With the sash fully open, the Induced Air-47 draws only 40% of the air from the laboratory . . . 60% is induced internally. Thus, substantial savings are effected in heating and air conditioning.



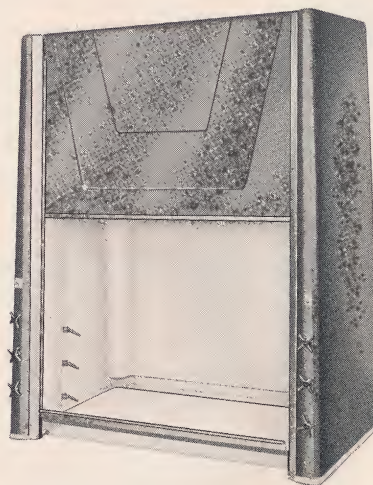
**The old  
"cold neck" method**



**The new  
LABCONCO method**



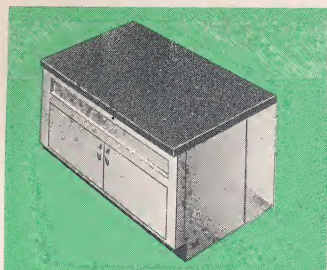
**NOW AVAILABLE —  
Fiberglass Induced Air-47 Fume Hood  
with service fixtures factory installed —  
ONLY \$815.**



You can also obtain the Induced Air-47 with service features (gas, water, air or vacuum) already installed. The fixtures, 3 on each side, can be operated from the outside of the hood with the sash closed. The plastic-coated serrated tips of the fixtures on the Induced Air-47 are located so as not to obstruct face opening. This eliminates the possible danger of an operator inadvertently knocking hose off tips, which could cause a serious accident.



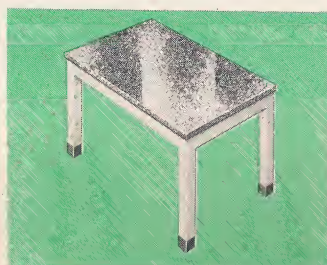
# FIBERGLASS-47 FUME HOOD / accessories and service fixtures



## CABINET

Supporting Base Cabinet. This cabinet is designed to support the Fiberglass-47 Fume Hoods. Meets steel laboratory furniture specifications and is finished in gray or green to match the hood colors. The working surface is 47" x 30" x 1 1/4" gray Colorlith. Overall height 37".

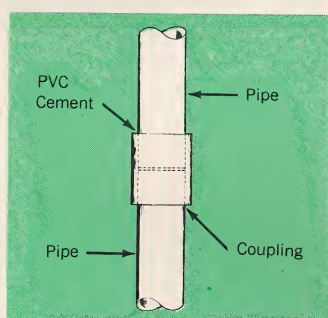
Catalog Number	Description	Ship. Wt.	Price
47082	Supporting Base Cabinet - Green	250 lbs.	\$225.00
47083	Supporting Base Cabinet - Gray		\$225.00



## TABLE

Supporting Base Table. Designed to support the Fiberglass-47 Fume Hoods. Frame is of 2" all-welded, square steel tubing with adjustable floor flanges. Colors are gray or green to match the hood colors. The working surface is 47" x 30" x 1 1/4" gray Colorlith. Overall height 37".

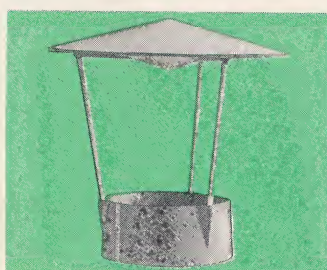
Catalog Number	Description	Ship. Wt.	Price
47084	Supporting Base Table - Green	150 lbs.	\$145.00
47085	Supporting Base Table - Gray		\$145.00



## PLASTIC PIPE

Lightweight, resistant plastic pipe is excellent to exhaust the Fiberglass-47 Fume Hoods. For joining two sections a coupling is required. Connections are simply made by solvent welding. This rigid thermoplastic extruded pipe is cut without special tools. Its ease of installation more than makes up for the slightly higher initial material cost.

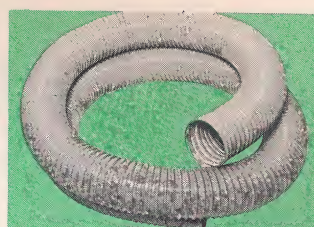
Catalog Number	Description	Ship. Wt.	Price
47189	8" Plastic Pipe, 10-ft. length	35 lbs.	\$60.00
47190	8" 90-degree Elbow Coupling	10 lbs.	\$45.00
47191	8" 45-degree Elbow Coupling	10 lbs.	\$35.00
47192	8" Straight Coupling	5 lbs.	\$17.00



## FIBERGLASS WEATHER CAP

Many caps or hoods placed over the top of an outside stack or flue will cause an undesirable back pressure. To avoid this, we have designed a new fiberglass weather cap which eliminates back pressure and is completely resistant to corrosion and weather. Fits 8" plastic pipe (above).

Catalog Number	Description	Ship. Wt.	Price
47193	Fiberglass Weather Cap	5 lbs.	\$24.00





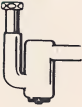






## SPIRAL TUBE

For semi-permanent hood installations, this spiral pipe serves very well. It is a highly resistant neoprene impregnated fiberglass reinforced with wire. This type of stack simplifies hood installations.

Catalog Number	Description	Price
47194	9" Spiral Tube, 10-ft. length	\$55.00

## CABINET MOUNTED SERVICE FIXTURES

	40050 - (Specify service) - Air Gas Vacuum - Single outlet key cock and turret ..... \$9.75
	40051 - Cold Water - Single Faucet with rigid gooseneck ..... \$13.50
	40052 - Drain - Lead 6 x 3 oval cup sink ..... \$21.00
	40053 - Drain - 5" diameter hemispherical lead cup sink ..... \$18.00
	40054 - Drain - 1 1/2" lead drum "P" trap with coupling nut ..... \$15.00
	40055 - Cold Water - Remote controlled rigid gooseneck faucet ..... \$21.60
	40056 - (Specify service) Air Gas Vacuum - Remote controlled single outlet ..... \$17.35
	40057 - Electrical - (Mounted on front of supporting base) 125 volt 15 AMP duplex ..... \$3.00
	40058 - Electrical - 125 volt 15 AMP duplex ..... \$12.50

NOTE: When service fixtures are ordered, the resistant working surface will be bored or cut for mounting these fixtures. Mounting shanks are included with the fixtures. The recessed front panel in the base cabinet will also be prepared for mounting electric outlet or remote controlled fixtures when these fixtures are ordered.



## STANDARD-47 FUME HOODS / *prices and specifications*

**47102—FIBERGLASS STANDARD-47 FUME HOOD WITH MOTOR AND BLOWER**, 47" x 29" x 59" high. Shipped completely assembled. 1/3 hp motor to be 115 volt, 60 cycle, AC. Fiberglass blower with plastic impeller to remove 605 cfm at 1/4 sp. Hood superstructure to be completely molded one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 3-foot fluorescent light, two switches, 1/4" plexiglass foiled counter balanced sash, automatic air by-pass, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$495.00  
**47103—Same as above but GRAY** ..... \$495.00

Shipping Weight 210 Lbs.

**47100—FIBERGLASS STANDARD-47 FUME HOOD WITHOUT MOTOR AND BLOWER**. Unit to be equipped with 8 5/8 inch I.D. collar located on top of the hood to which exhaust pipe may be attached, when a central or remotely located blower system is used. Hood superstructure to be completely molded one-piece, fire retardant, poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 3-foot fluorescent light, one switch, 1/4" plexiglass foiled sash, automatic air by-pass, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$460.00  
**47101—Same as above except GRAY** ..... \$460.00

Shipping Weight 220 Lbs.

**47106—FIBERGLASS STANDARD-47 FUME HOOD WITH EXPLOSION-PROOF MOTOR AND BLOWER AND LIGHT**. Motor to be UL approved, Class I Group D; Class II Group E, F, G, 115 volt, 60 cycle, AC, 1/3 hp. The non-sparking fiberglass blower will remove 605 cfm at 1/4 sp. A UL approved, Class I, Groups C and D, Explosion-Proof Light is included. Hood superstructure to be completely molded one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 1/4" plexiglass foiled sash, automatic air by-pass. This model does not include switches for the blower or light. These must be furnished and installed by customer to comply with local codes. Shipped with all equipment completely assembled. GREEN ..... \$588.00  
**47107—Same as above but GRAY** ..... \$588.00

Shipping Weight 240 Lbs.

**47118—FIBERGLASS STANDARD-47 FUME HOOD WITH MOTOR, BLOWER AND FIXTURES**. 47" x 29" x 59" high. Shipped completely assembled. 1/3 hp motor to be 115 volt, 60 cycle, AC. Fiberglass blower with plastic impeller to remove 605 cfm at 1/4 sp. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall point towards back of hood and shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 3-foot fluorescent light, two switches, 1/4" plexiglass foiled counter balanced sash, automatic air by-pass, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$645.00  
**47119—Same as above but GRAY** ..... \$645.00

Shipping Weight 235 Lbs.

**47116—FIBERGLASS STANDARD-47 FUME HOOD WITHOUT MOTOR AND BLOWER BUT WITH FIXTURES**. Unit to be equipped with 8 5/8 inch I.D. collar located on top of the hood to which exhaust pipe may be attached, when a central or remotely located blower system is used. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded one-piece, fire retardant, poly laminate, bonded double-wall fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 3-foot fluorescent light, one switch, 1/4" plexiglass foiled sash, automatic air by-pass, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled.

GREEN ..... \$610.00

**47117—Same as above except GRAY** ..... \$610.00

Shipping Weight 225 Lbs.

**47122—FIBERGLASS STANDARD-47 FUME HOOD WITH EXPLOSION-PROOF MOTOR AND BLOWER AND LIGHT AND WITH FIXTURES**. Motor to be UL approved, Class I Group D; Class II Group E, F, G, 115 volt, 60 cycle, AC 1/3 hp. The non-sparking fiberglass blower will remove 605 cfm at 1/4 sp. A UL approved, Class I, Groups C and D, Explosion-Proof Light is included. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 1/4" plexiglass foiled sash, automatic air by-pass. This model does not include switches for the blower or light. These must be furnished and installed by customer to comply with local codes. Shipped with all equipment completely assembled.

GREEN ..... \$732.00

**47123—Same as above but GRAY** ..... \$732.00

Shipping Weight 255 Lbs.



## INDUCED AIR-47 FUME HOODS / *prices and specifications*

**47110—FIBERGLASS INDUCED AIR-47 FUME HOOD WITH TWO MOTOR AND BLOWER SETS.** 47" x 29" x 59" high. Exhaust motor and blower to be a 1/3 hp motor operating on 115 volt, 60 cycle, AC. Exhaust blower to be made of fiberglass and have a plastic impeller and shall remove 605 cfm at 1/4 sp. The inducing motor and blower, 1/4 hp, 115 volt, 60 cycle, AC, shall deliver 360 cfm at 1/4 sp. Hood superstructure to be completely molded one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 3-foot fluorescent light, two switches, 1/4" plexiglass foiled counter balanced sash, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled.

GREEN ..... \$665.00

47111—Same as above except GRAY ..... \$665.00  
Shipping Weight 245 Lbs.

**47108—FIBERGLASS INDUCED AIR-47 FUME HOOD WITHOUT MOTORS AND BLOWERS.** 47" x 29" x 59" high. Unit to be equipped with one 8 3/8" I.D. collar to which a central or remotely located exhaust blower may be connected and one 8 3/8" I.D. collar to which a central or remotely located inducing blower may be connected. Hood superstructure to be completely molded one-piece, fire retardant, poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 3-foot fluorescent light, one switch, 1/4" plexiglass foiled sash, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$560.00

47109—Same as above except GRAY ..... \$560.00  
Shipping Weight 212 Lbs.

**47114—FIBERGLASS INDUCED AIR-47 FUME HOOD WITH TWO EXPLOSION-PROOF MOTOR AND BLOWER SETS AND AN EXPLOSION-PROOF LIGHT.** Both motors to be UL approved, Class I Group D; Class II Group E, F, G. A UL approved, Class I, Groups C and D explosion-proof light is included. Exhaust motor and blower to be a 1/3 hp motor operating on 115 volt, 60 cycle, AC. Exhaust blower to be made of fiberglass and have a plastic impeller and shall remove 605 cfm at 1/4 sp. The inducing motor and blower shall deliver 360 cfm at 1/4 sp. The motor will be 1/4 hp operating on 115 volt, 60 cycle, AC. Hood superstructure to be completely molded one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 1/4" plexiglass foiled sash. This model does not include switches for the blower or light. These must be furnished and installed by customer to comply with local codes. Hood shipped completely assembled. GREEN ..... \$788.00

47115—Same as above except GRAY ..... \$788.00  
Shipping Weight 260 Lbs.

**47126—FIBERGLASS INDUCED AIR-47 FUME HOOD WITH TWO MOTOR AND BLOWER SETS AND FIXTURES.** 47" x 29" x 59" high. Exhaust motor and blower to be a 1/3 hp motor operating on 115 volt, 60 cycle, AC. Exhaust blower to be made of fiberglass and have a plastic impeller and shall remove 605 cfm at 1/4 sp. The 1/4 hp, 115 volt, 60 cycle, AC inducing motor and blower shall deliver 360 cfm at 1/4 sp. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 3-foot fluorescent light, two switches, 1/4" plexiglass foiled counter balanced sash, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled.

GREEN ..... \$815.00

47127—Same as above except GRAY ..... \$815.00  
Shipping Weight 260 Lbs.

**47124—FIBERGLASS INDUCED AIR-47 FUME HOOD WITHOUT MOTORS AND BLOWERS, BUT WITH FIXTURES.** 47" x 29" x 59" high. Unit to be equipped with one 8 3/8" I.D. collar to which a central or remotely located exhaust blower may be connected and one 8 3/8" I.D. collar to which a central or remotely located inducing blower may be connected. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded one-piece, fire retardant, poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 3-foot fluorescent light, one switch, 1/4" plexiglass foiled sash, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$710.00

47125—Same as above except GRAY ..... \$710.00  
Shipping Weight 227 Lbs.

**47130—FIBERGLASS INDUCED AIR-47 FUME HOOD WITH TWO EXPLOSION-PROOF MOTOR AND BLOWER SETS, AN EXPLOSION-PROOF LIGHT, AND WITH FIXTURES.** Both motors to be UL approved, Class I Group D; Class II Groups E, F and G. A UL approved, Class I, Groups C and D explosion-proof light is included. Exhaust motor and blower to be a 1/3 hp motor operating on 115 volt, 60 cycle, AC. Exhaust blower to be made of fiberglass and have a plastic impeller and shall remove 605 cfm at 1/4 sp. The 1/4 hp, 115 volt, 60 cycle, AC inducing motor and blower shall deliver 360 cfm at 1/4 sp. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted on layer. Hood shall have a 1/4" plexiglass foiled sash. This model does not include switches for the blower or light. These must be furnished and installed by customer to comply with local codes. Hood shipped completely assembled. GREEN ..... \$938.00

47131—Same as above except GRAY ..... \$938.00  
Shipping Weight 275 Lbs.



## COMBINATION DIGESTION AND DISTILLATION MODELS HOODED

### ELECTRIC

Catalog Number	Description	Ship. Wt.	Price
	6 unit (6 Distillation) (6 Digestion)	1200 lbs.	
20710	GREEN		\$2412.00
20711	GRAY		2412.00
20720	GREEN with Induced Air		2522.00
20721	GRAY with Induced Air		2522.00
	12 unit (12 Distillation) (12 Digestion)	1700 lbs.	
20712	GREEN		3349.00
20713	GRAY		3349.00
20722	GREEN with Induced Air		3459.00
20723	GRAY with Induced Air		3459.00
	18 unit (18 Distillation) (18 Digestion)	2200 lbs.	
20714	GREEN		4716.00
20715	GRAY		4716.00
20724	GREEN with Induced Air		4881.00
20725	GRAY with Induced Air		4881.00

## COMBINATION DIGESTION AND DISTILLATION MODELS NOT HOODED

### ELECTRIC

Catalog Number	Description	Ship. Wt.	Price
20700	6 unit (6 Distillation) (6 Digestion)	600 lbs.	\$1339.00
20701	12 unit (12 Distillation) (12 Digestion)	1100 lbs.	2150.00
20702	18 unit (18 Distillation) (18 Digestion)	1500 lbs.	3121.00
20703	24 unit (24 Distillation) (24 Digestion)	1900 lbs.	3929.00

### GAS

20705	6 unit (6 Distillation) (6 Digestion)	650 lbs.	1154.00
20706	12 unit (12 Distillation) (12 Digestion)	1150 lbs.	1864.00
20707	18 unit (18 Distillation) (18 Digestion)	1550 lbs.	2709.00
20708	24 unit (24 Distillation) (24 Digestion)	1950 lbs.	3406.00

## DISTILLATION MODELS

Catalog Number	Description	Ship. Wt.	Price
<b>ELECTRIC</b>			
20730	Distillation, 6 unit	200 lbs.	\$ 525.00
20731	Distillation, 12 unit	350 lbs.	834.00
20732	Distillation, 18 unit	500 lbs.	1192.00
20733	Distillation, 24 unit	650 lbs.	1485.00
<b>GAS</b>			
20735	Distillation, 6 unit	200 lbs.	453.00
20736	Distillation, 12 unit	350 lbs.	719.00
20737	Distillation, 18 unit	500 lbs.	1027.00
20738	Distillation, 24 unit	650 lbs.	1280.00

## DIGESTION MODELS

Catalog Number	Description	Ship. Wt.	Price
<b>ELECTRIC</b>			
20740	Digestion, 6 unit	450 lbs.	\$ 745.00
20741	Digestion, 12 unit	750 lbs.	1235.00
20742	Digestion, 18 unit	1050 lbs.	1807.00
20743	Digestion, 24 unit	1250 lbs.	2301.00
<b>GAS</b>			
20745	Digestion, 6 unit	400 lbs.	634.00
20746	Digestion, 12 unit	700 lbs.	1064.00
20747	Digestion, 18 unit	1000 lbs.	1557.00
20748	Digestion, 24 unit	1250 lbs.	1984.00

## SPECIAL MODELS

— almost complete flexibility...consult LABCONCO.

## OPTIONAL FEATURES

20800	Thermo Water Control 6 or 12 unit	\$ 90.00
20801	Thermo Water Control 18 or 24 unit	180.00
20850	Automatic Timing Device 6 or 12 unit- electric	125.00
20851	Automatic Timing Device 18 or 24 unit-electric	268.00
20860	Automatic Timing Device 6, 12, 18 or 24 unit gas	80.00
20811	Water Ejector, Any Model	NO EXTRA CHARGE
20822	Infinite Control — per heater	15.00

## A. C. ELECTRICAL CHARACTERISTICS

(Selection does not affect price.)

Catalog Number	Description
20830*	115 Volts, 60 Cycle, Single Phase, 2-Wire
20831*	115 Volts, 50 Cycle, Single Phase, 2-Wire
20832**	230 Volts, 60 Cycle, Single Phase, 2-Wire
20833**	230 Volts, 50 Cycle, Single Phase, 2-Wire
20834*	115/230 Volts, 60 Cycle, Single Phase, 3-Wire
20835*	115/230 Volts, 50 Cycle, Single Phase, 3-Wire
20836**	230 Volts, 60 Cycle, 3 Phase, 3-Wire
20837**	230 Volts, 50 Cycle, 3 Phase, 3-Wire
20838*	120/208 Volts, 60 Cycle, 3 Phase, 4-Wire
20839*	120/208 Volts, 50 Cycle, 3 Phase, 4-Wire

\*Heaters and air ejector motor will be 115 Volts, Single Phase

\*\*Heaters and air ejector motor will be 230 Volts, Single Phase





## FIBERGLASS-70 FUME HOODS

LABCONCO has improved and expanded its basic 70" fume hood line. Now available, a Standard-70 and an Induced Air-70 fume hood, each incorporating all the latest concepts in fume hood design. Never before have there been fume hoods that offer so many features at such low prices.

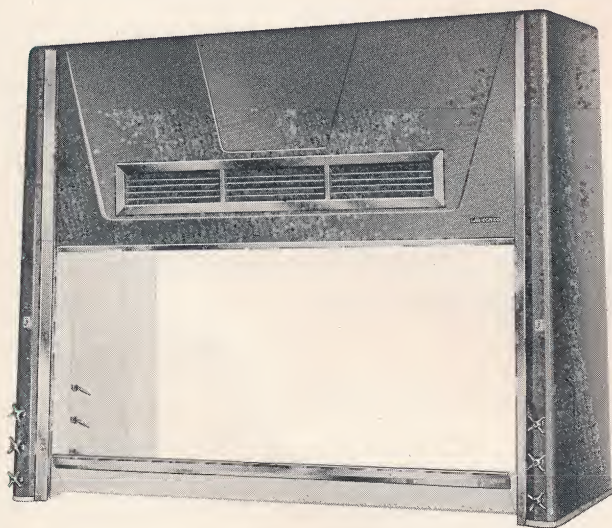
- THE STANDARD-70—ONLY \$785.00—*complete and ready to plug in and use*
- THE INDUCED AIR-70—ONLY \$990.00—*complete with two motors and blowers, ready to plug in and use*
- NEW OPTION—*service fixtures available for both models*
- LIGHTWEIGHT—*easy to install, to move, to ship*
- MAINTENANCE FREE—*no paint to peel or chip; no metal to corrode*
- ATTRACTIVE, RUGGED DESIGN
- ANSWER EVERY NEED—*all hoods available without motors and blowers or with explosion-proof motors and blowers*



# FIBERGLASS STANDARD-70 FUME HOOD / *features*

LABCONCO Fiberglass Fume Hoods are manufactured of polyester resins reinforced with glass fibers. This material, with LABCONCO's unique poly laminate construction technique, provides you with a one-piece, strong, porcelain-like surface, inside and out, that is nonporous, chemically resistant and fire retardant. The superior strength of poly laminate construction also eliminates the need for bulky side walls that take up your valuable space inside or space outside the fume hood.

**NOW AVAILABLE —  
Fiberglass Standard-70 Fume Hood  
with service fixtures factory installed —  
ONLY \$935.**



Now you can obtain the Standard-70 with service fixtures (gas, water and air or vacuum) already installed. The fixtures, 3 on each side, can be operated from the outside of the hood with the sash closed. The plastic coated, serrated tips of the fixtures are located so as not to obstruct face opening. This eliminates the possible danger of an operator inadvertently knocking hose off tips which could cause a serious accident.



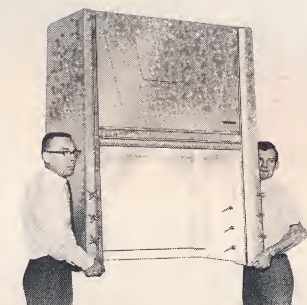
## **QUICK AND EASY TO CLEAN**

The smooth-as-glass surface and gently coved corners of the one-piece interior—back, sides and top—make wash down quick and easy. There are no joints, cracks or hard-to-reach spots to collect undesirable residue.



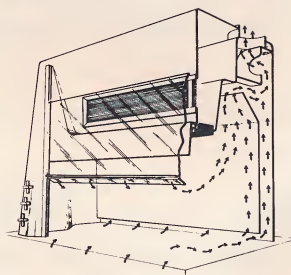
## **FIRE AND CHEMICAL RESISTANT**

Fiberglass reinforced polyester is chemically inert and corrosion-proof. This material will not support combustion.

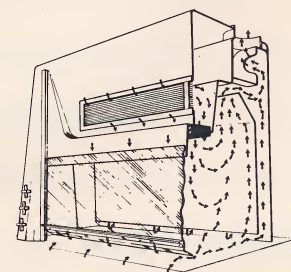


## **LIGHTWEIGHT, PORTABLE**

The Standard-70 weighs only 250 pounds. It can be easily installed or moved around by lab personnel with little trouble, no cost. The hood is designed for mounting on any conventional 70" base cabinet or table—wood or steel.



**AIR FLOW SASH UP**



**AIR FLOW SASH DOWN**

## **NEW, AUTOMATIC AIR BY-PASS**

The automatic air by-pass opens as the sash is lowered, maintaining a constant face velocity.



## FIBERGLASS STANDARD-70 FUME HOOD / *features*

### NEW REMOVABLE ACCESS PANEL

Easily removed front panel provides easy access for inspection and maintenance of motor, blower.

### NEW, EXTRA-LARGE MOTOR & NON-METALLIC BLOWER

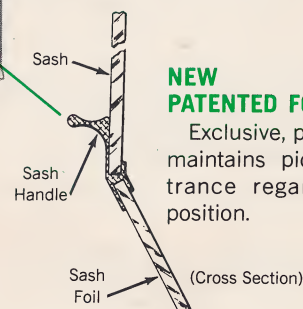
New, extra-large  $\frac{1}{2}$  HP 115 volt A.C. motor and blower will deliver 960 cm at  $\frac{1}{4}$  sp. The blower and motor housing and impeller are formed of resistant resins. No metal to corrode. Will give years of trouble-free service.

### NEW AIR FOIL DESIGN

Picture frame face causes air to enter hood in a turbulence-free pattern. Reduces eddies.

### NEW PATENTED FOIL SASH

Exclusive, patented foil sash maintains picture frame entrance regardless of sash position.



### COUNTER-BALANCED PLEXIGLASS SASH

Lightweight, shatter-proof  $\frac{1}{4}$ " Plexiglass sash is counter-balanced for smooth fingertip control. Dual weights concealed in rear of the hood operate quietly on plastic coated steel cables and ball bearing nylon sheaves.

### NEW HIGHER FACE VELOCITIES

LABCONCO's new hood maintains an 80 feet per minute face velocity with the sash fully open using the standard motor and blower.

### LIGHT, BRIGHT WORKING AREA

All light is directed into the working area. The non-glare interior and adequate light minimize operator fatigue.

### FACTORY WIRING

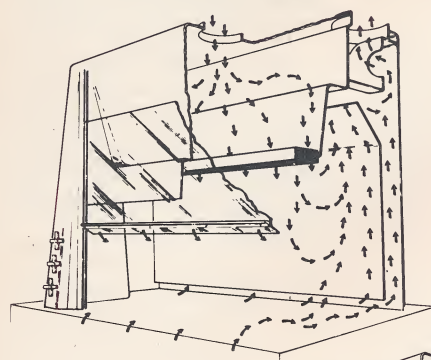
The motor, blower and all electrical wiring are installed at the factory.



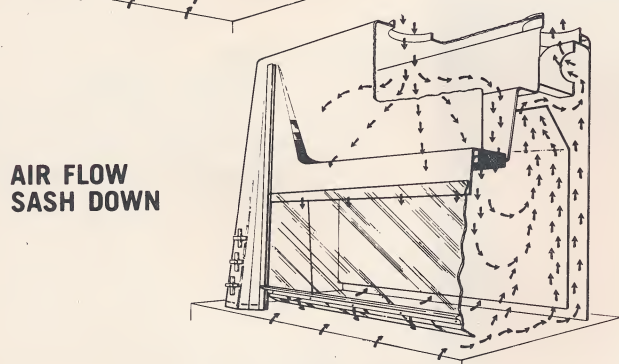
# FIBERGLASS INDUCED AIR-70 FUME HOOD / features

The LABCONCO Fiberglass Induced Air-70 Fume Hood has all the new and exciting features of the Fiberglass Standard-70, except that it also has its own *induced* air supply.

To induce its own air, the Fiberglass Induced Air-70 has an **additional** ¼ hp, 115-volt AC motor and blower that delivers 60% of the exhaust air. The blower and motor housing and impeller are formed of resistant plastic. Will give years of trouble-free service.



**AIR FLOW  
SASH UP**



**AIR FLOW  
SASH DOWN**

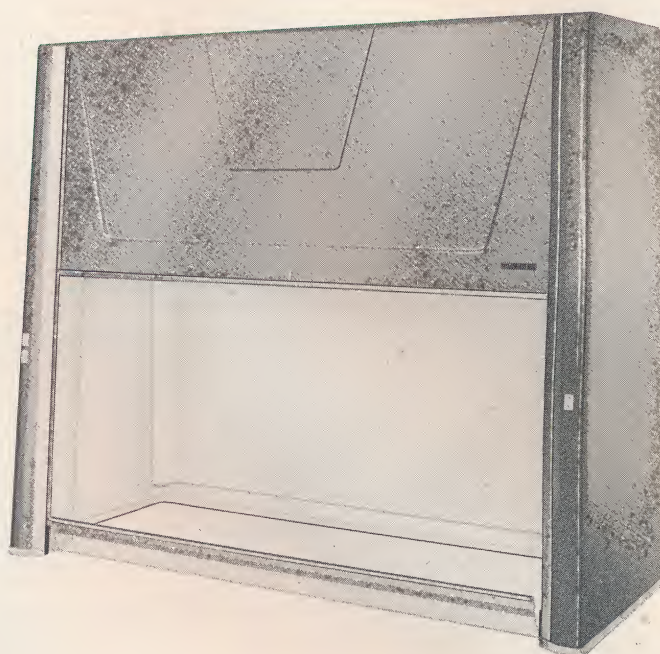
With the sash fully open, the Induced Air-70 draws only 40% of the air from the laboratory . . . 60% is induced internally. Thus, substantial savings are effected in heating and air conditioning.



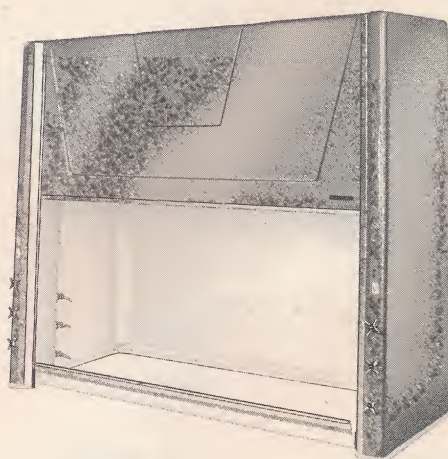
**The old  
"cold neck" method**



**The new  
LABCONCO method**



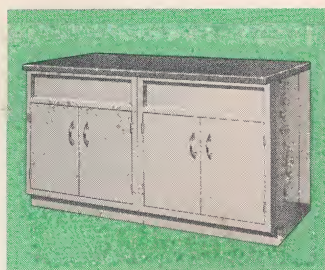
**NOW AVAILABLE —  
Fiberglass Induced Air-70 Fume Hood  
with service features factory installed —  
ONLY \$1,140.**



You can also obtain the Induced Air-70 with service features (gas, water, air or vacuum) already installed. The fixtures, 3 on each side, can be operated from the outside of the hood with the sash closed. The plastic-coated serrated tips of the fixtures on the Induced Air-70 are located so as not to obstruct face opening. This eliminates the possible danger of an operator inadvertently knocking hose off tips, which could cause a serious accident.



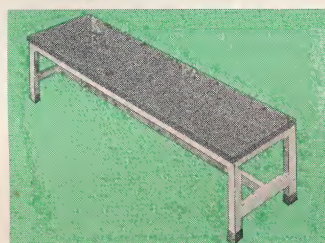
## FIBERGLASS-70 FUME HOOD / accessories and service fixtures



### CABINET

Supporting Base Cabinet set. Consists of two, three-foot cabinets (total dimensions: 70" x 30" x 37") designed to support the Fiberglass-70 Fume Hood. Top is made of 1 1/4" Colorlith. Cabinets meet steel laboratory furniture specifications and are finished in gray or green to match hoods.

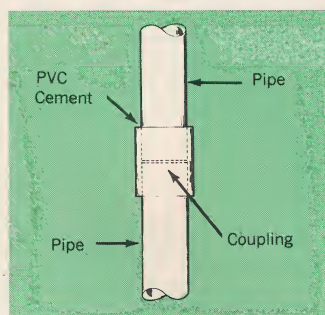
Catalog Number	Description	Ship. Wt.	Price
70246	Supporting Base Cabinet Set - Green	425 lbs.	\$415.00
70247	Supporting Base Cabinet Set - Gray		\$415.00



### TABLE

Supporting Base Table. Designed to support the Fiberglass-70 Fume Hood. Frame is of 2" all welded, square steel tubing with adjustable floor flanges. Colors are green or gray. The working surface is 70" x 30" x 37" and is 1 1/4" charcoal gray Colorlith.

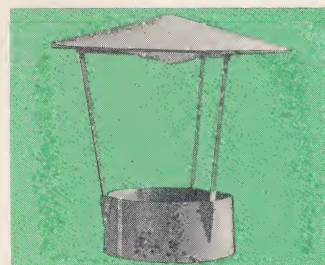
Catalog Number	Description	Ship. Wt.	Price
70244	Supporting Base Table - Green	300 lbs.	\$250.00
70245	Supporting Base Table - Gray		\$250.00



### PLASTIC PIPE

Light weight, resistant Plastic Pipe is excellent to exhaust the Fiberglass-70 Fume Hood. For joining two sections a slip sleeve connector is required. Connections are simply made by solvent welding. This rigid thermoplastic extruded pipe is cut without special tools. Its ease of installation more than offsets the slightly higher initial material cost.

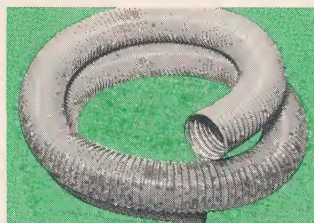
Catalog Number	Description	Ship. Wt.	Price
70272	10" Plastic Pipe, 10-ft. length	50 lbs.	\$80.00
70273	10" 90-degree Elbow Coupling	12 lbs.	\$55.00
70274	10" 45-degree Elbow Coupling	12 lbs.	\$42.00
70275	10" Straight Coupling	5 lbs.	\$20.00



### FIBERGLASS WEATHER CAP

Many caps or hoods placed over the top of an outside stack or flue will cause an undesirable back pressure. To avoid this, we have designed a new Fiberglass Weather Cap which eliminates back pressure and is completely resistant to corrosion and weather. Fits 10" Plastic Pipe (above).

Catalog Number	Description	Ship. Wt.	Price
70276	Fiberglass Weather Cap	5 lbs.	\$40.00












### SPIRAL TUBE

For semi-permanent hood installations, this spiral pipe serves very well. It is a highly resistant neoprene impregnated fiberglass reinforced with wire. This type of stack simplifies hood installations.

Catalog Number	Description	Price
70277	11" Spiral Tube, 10-ft. length	\$97.00

### CABINET MOUNTED SERVICE FIXTURES

	40050 - (Specify service) - Air, Gas, Vacuum - Single outlet key cock and turret ..... \$ 9.75
	40051 - Cold Water - Single faucet with rigid gooseneck ..... \$13.50
	40052 - Drain - Lead 6 x 3 oval cup sink ..... \$21.00
	40053 - Drain - 5" diameter hemispherical lead cup sink ..... \$18.00
	40054 - Drain - 1 1/2" lead drum "P" trap with coupling nut ..... \$15.00
	40055 - Cold Water - Remote controlled rigid gooseneck faucet ..... \$21.60
	40056 - (Specify service) - Air Gas Vacuum - Remote controlled single outlet ..... \$17.35
	40057 - Electrical - (Mounted on front of supporting base) - 125 volt 15 AMP duplex ..... \$ 3.00
	40058 - Electrical - 125 volt 15 AMP duplex ..... \$12.50

NOTE: When service fixtures are ordered, the resistant working surface will be bored or cut for mounting these fixtures. Mounting shanks are included with the fixtures. The recessed front panel in the base cabinet will also be prepared for mounting electric outlet or remote controlled fixtures when these fixtures are ordered.



# STANDARD-70 FUME HOODS / *prices and specifications*

**70302—FIBERGLASS STANDARD-70 FUME HOOD WITH MOTOR AND BLOWER.** 70" x 29" x 59" high. Shipped completely assembled. ½ hp motor to be 115 volt, 60 cycle, AC. Fiberglass blower with plastic impeller to remove 960 cfm at ¼ sp. Hood superstructure to be completely molded one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a 4-foot fluorescent light, two switches, ¼" plexiglass foiled counter balanced sash, automatic air by-pass, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$785.00  
70303—Same as above but GRAY ..... \$785.00

Shipping Weight 315 Lbs.

**70300—FIBERGLASS STANDARD-70 FUME HOOD WITHOUT MOTOR AND BLOWER.** Unit to be equipped with 10¾ inch I.D. collar located on top of the hood to which exhaust pipe may be attached, when a central or remotely located blower system is used. Hood superstructure to be completely molded, one-piece, fire retardant, poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a 4-foot fluorescent light, one switch, ¼" plexiglass foiled sash, automatic air by-pass, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$755.00  
70301—Same as above except GRAY ..... \$755.00

Shipping Weight 305 Lbs.

**70306—FIBERGLASS STANDARD-70 FUME HOOD WITH EXPLOSION-PROOF MOTOR AND BLOWER AND LIGHT.** Motor to be UL approved, Class I Group D; Class II Group E, F, G, 115 volt, 60 cycle, AC, ½ hp. The non-sparking fiberglass blower will remove 960 cfm at ¼ sp. A UL approved, Class I, Groups C and D, Explosion-Proof Light is included. Hood superstructure to be completely molded one-piece, fire retardant poly laminate fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a ¼" plexiglass foiled sash, automatic air by-pass. This model does not include switches for the blower or light. These must be furnished and installed by customer to comply with local codes. Shipped with all equipment completely assembled. GREEN ..... \$878.00  
70307—Same as above but GRAY ..... \$878.00

Shipping Weight 340 Lbs.

**70318—FIBERGLASS STANDARD-70 FUME HOOD WITH MOTOR, BLOWER AND FIXTURES.** 70" x 29" x 59" high. Shipped completely assembled. ½ hp motor to be 115 volt, 60 cycle, AC. Fiberglass blower with plastic impeller to remove 960 cfm at ¼ sp. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall point towards back of hood and shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a 4-foot fluorescent light, two switches, ¼" plexiglass foiled counter balanced sash, automatic air by-pass, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$935.00  
70319—Same as above but GRAY ..... \$935.00

Shipping Weight 330 Lbs.

**70316—FIBERGLASS STANDARD-70 FUME HOOD WITHOUT MOTOR AND BLOWER BUT WITH FIXTURES.** Unit to be equipped with 10¾ inch I.D. collar located on top of the hood to which exhaust pipe may be attached, when a central or remotely located blower system is used. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded, one-piece, fire retardant, poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a 4-foot fluorescent light, one switch, ¼" plexiglass foiled sash, automatic air by-pass, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$905.00  
70317—Same as above except GRAY ..... \$905.00

Shipping Weight 320 Lbs.

**70322—FIBERGLASS STANDARD-70 FUME HOOD WITH EXPLOSION-PROOF MOTOR AND BLOWER AND LIGHT AND WITH FIXTURES.** Motor to be UL approved, Class I, Group D; Class II, Group E, F, G, 115 volt, 60 cycle, AC, ½ hp. The non-sparking fiberglass blower will remove 960 cfm at ¼ sp. A UL approved, Class I, Groups C and D, Explosion-Proof Light is included. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded, one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a ¼" plexiglass foiled sash, automatic air by-pass. This model does not include switches for the blower or light. These must be furnished and installed by customer to comply with local codes. Shipped with all equipment completely assembled. GREEN ..... \$1,028.00  
70323—Same as above but GRAY ..... \$1,028.00

Shipping Weight 355 Lbs.



## INDUCED AIR-70 FUME HOODS / *prices and specifications*

**70310—FIBERGLASS INDUCED AIR-70 FUME HOOD WITH TWO MOTOR AND BLOWER SETS.** 70" x 29" x 59" high. Exhaust motor and blower to be a ½ hp motor operating on 115 volt, 60 cycle, AC. Exhaust blower to be made of fiberglass and have a plastic impeller and shall remove 960 cfm at ¼ sp. The inducing motor and blower, ¼ hp 115 volt, 60 cycle, AC, shall deliver 575 cfm at ¼ sp. Hood superstructure to be completely molded, one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a 4-foot fluorescent light, two switches, ¼" plexiglass foiled counter balanced sash, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$990.00  
70311—Same as above except GRAY ..... \$990.00  
Shipping Weight 340 Lbs.

**70308—FIBERGLASS INDUCED AIR-70 FUME HOOD WITHOUT MOTORS AND BLOWERS.** 70" x 29" x 59" high. Unit to be equipped with one 10¾ inch I.D. collar to which a central or remotely located exhaust blower may be connected and one 10¾ inch I.D. collar to which a central or remotely located inducing blower may be connected. Hood superstructure to be completely molded, one-piece, fire retardant, poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a 4-foot fluorescent light, one switch, ¼" plexiglass foiled sash, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$875.00  
70309—Same as above except GRAY ..... \$875.00  
Shipping Weight 310 Lbs.

**70314—FIBERGLASS INDUCED AIR-70 FUME HOOD WITH TWO EXPLOSION-PROOF MOTOR AND BLOWER SETS AND AN EXPLOSION-PROOF LIGHT.** Both motors to be UL approved, Class I, Group D; Class II, Group E, F, G. A UL approved, Class I, Groups C and D Explosion-Proof Light is included. Exhaust motor and blower to be a ½ hp motor operating on 115 volt, 60 cycle, AC. Exhaust blower to be made of fiberglass and have a plastic impeller and shall remove 960 cfm at ¼ sp. The inducing motor and blower shall deliver 575 cfm at ¼ sp. The motor will be ¼ hp operating on 115 volt, 60 cycle, AC. Hood superstructure to be completely molded, one-piece, fire retardant, poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a ¼" plexiglass foiled sash. This model does not include switches for the blower or light. These must be furnished and installed by customer to comply with local codes. Hood shipped completely assembled. GREEN ..... \$1,134.00  
70315—Same as above except GRAY ..... \$1,134.00  
Shipping Weight 360 Lbs.

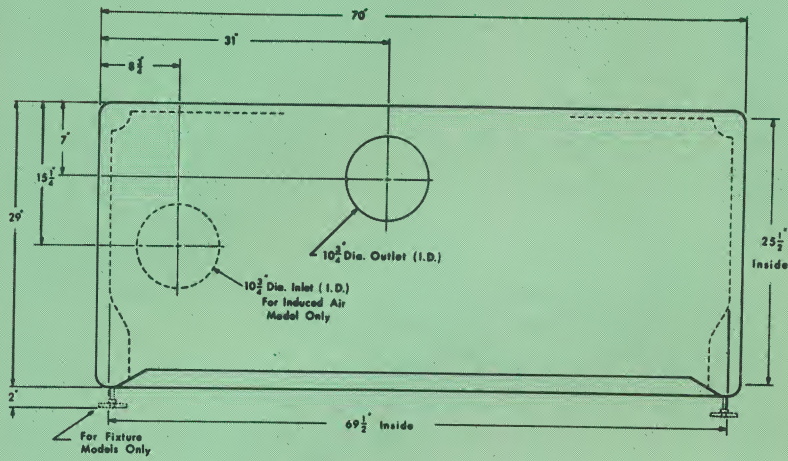
**70326—FIBERGLASS INDUCED AIR-70 FUME HOOD WITH TWO MOTOR AND BLOWER SETS AND FIXTURES.** 70" x 29" x 59" high. Exhaust motor and blower to be a ½ hp motor operating on 115 volt, 60 cycle, AC. Exhaust blower to be made of fiberglass and have a plastic impeller and shall remove 960 cfm at ¼ sp. The ¼ hp, 115 volt, 60 cycle, AC inducing motor and blower shall deliver 575 cfm at ¼ sp. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded, one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a 4-foot fluorescent light, two switches, ¼" plexiglass foiled counter balanced sash, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$1,140.00  
70327—Same as above except GRAY ..... \$1,140.00  
Shipping Weight 355 Lbs.

**70324—FIBERGLASS INDUCED AIR-70 FUME HOOD WITHOUT MOTORS AND BLOWERS, BUT WITH FIXTURES.** 70" x 29" x 59" high. Unit to be equipped with one 10¾ inch I.D. collar to which a central or remotely located exhaust blower may be connected and one 10¾ inch I.D. collar to which a central or remotely located inducing blower may be connected. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded, one-piece, fire retardant, poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a 4-foot fluorescent light, one switch, ¼" plexiglass foiled sash, 12 ft. of 3-wire cord and plug shipped with all equipment completely assembled. GREEN ..... \$1,025.00  
70325—Same as above except GRAY ..... \$1,025.00  
Shipping Weight 325 Lbs.

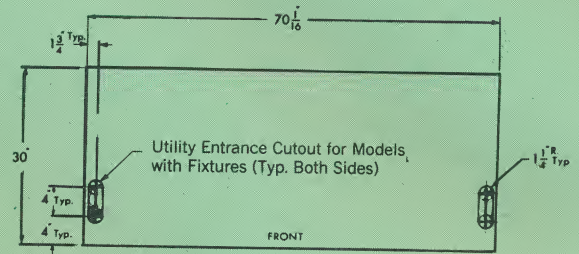
**70330—FIBERGLASS INDUCED AIR-70 FUME HOOD WITH TWO EXPLOSION-PROOF MOTOR AND BLOWER SETS, AN EXPLOSION-PROOF LIGHT, AND WITH FIXTURES.** Both motors to be UL approved, Class I, Group D; Class II, Group E, F, G. A UL approved, Class I, Groups C and D Explosion-Proof Light is included. Exhaust motor and blower to be a ½ hp motor operating on 115 volt, 60 cycle, AC. Exhaust blower to be made of fiberglass and have a plastic impeller and shall remove 960 cfm at ¼ sp. The ¼ hp, 115 volt, 60 cycle, AC inducing motor and blower shall deliver 575 cfm at ¼ sp. Unit to include 6 service fixtures, 3 mounted on each side wall. May be used for gas, air, vacuum or water. Valve control handles to be mounted outside of fume cavity on the face of side walls. All 6 plastic coated serrated tips shall be located so as not to obstruct face opening, but still be within easy reach of operator. Hood superstructure to be completely molded, one-piece, fire retardant poly laminate, bonded double-wall, fiberglass. Color to be an integral part of the surface resin, not a painted-on layer. Hood shall have a ¼" plexiglass foiled sash. This model does not include switches for the blower or light. These must be furnished and installed by customer to comply with local codes. Hood shipped completely assembled. GREEN ..... \$1,284.00  
70331—Same as above except GRAY ..... \$1,284.00  
Shipping Weight 375 Lbs.



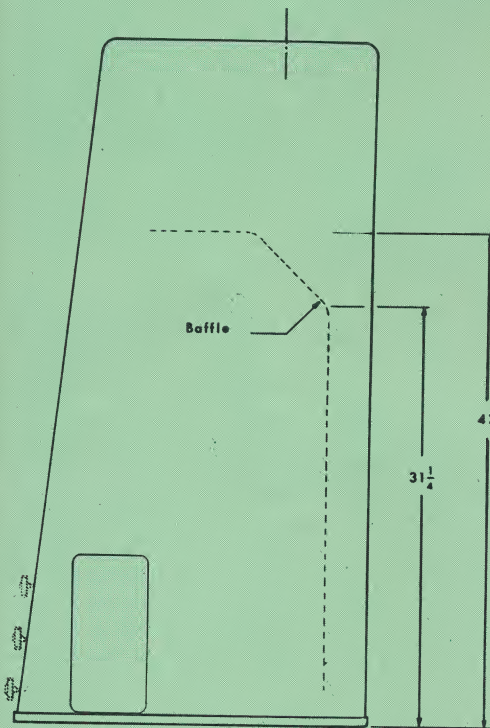
# FIBERGLASS-70 FUME HOODS / *dimensional data*



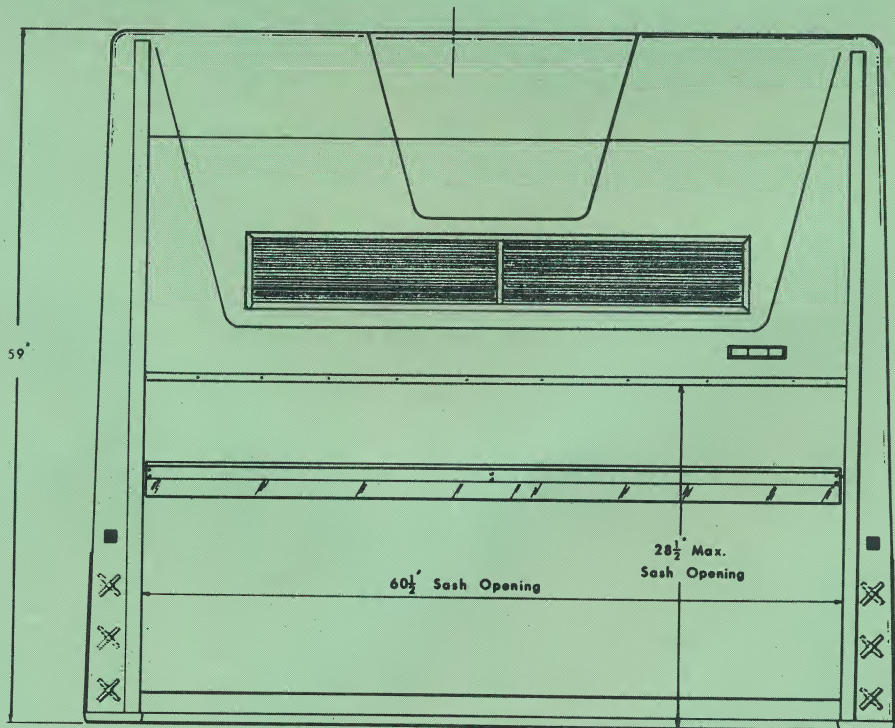
TOP VIEW



SUPPORT CABINET TOP FOR 70

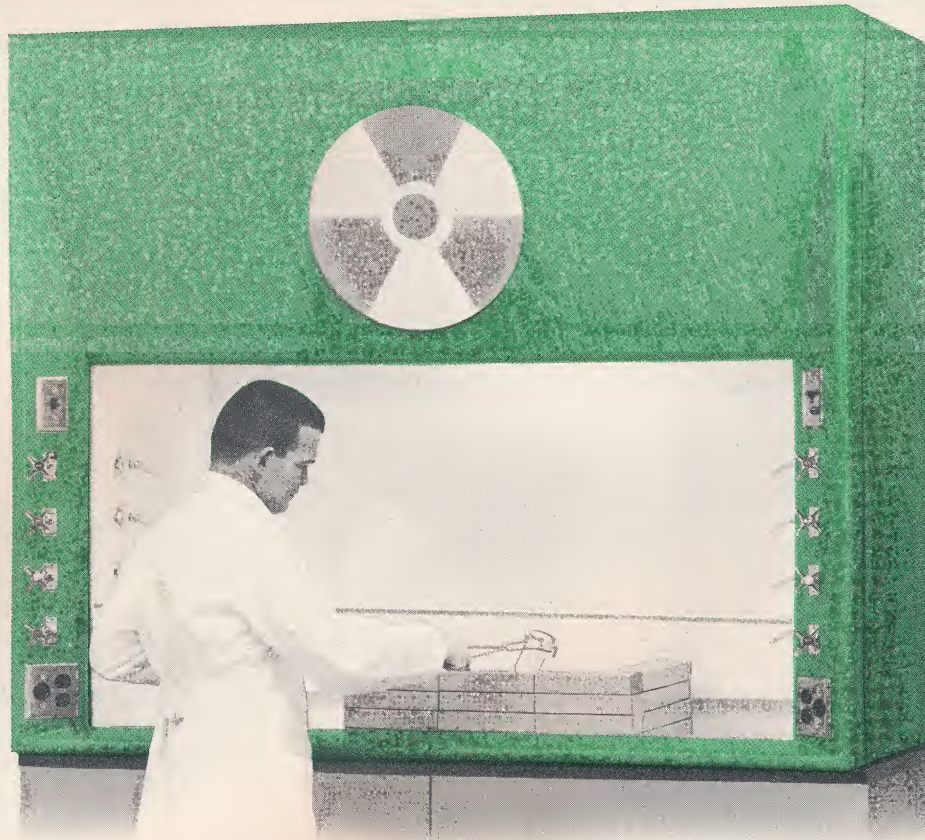


SIDE VIEW



FRONT VIEW





## FIBERGLASS ADVANCE-70 FUME HOODS

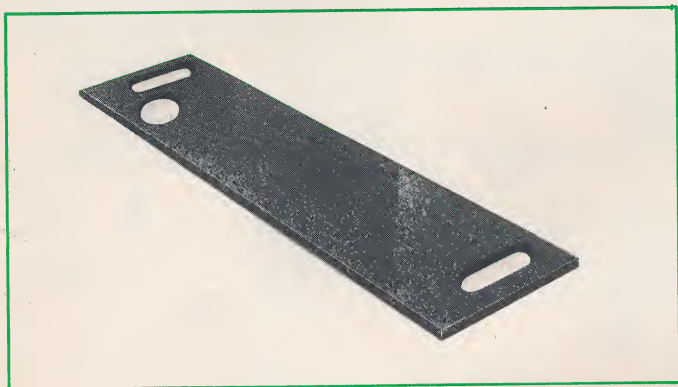
Here's one of the most exciting laboratory innovations in recent years: a full 70" wide fume hood that's made of rugged, double-wall fiberglass and which incorporates the air by-pass and low velocity exhausting system found only on the most expensive hoods. Particularly adaptable to radioactive experiments.

- SMOOTH, SEAMLESS INTERIOR—*sides, back, working surface and cup sink all one piece*
- ALL FIBERGLASS CONSTRUCTION—*no metal to corrode, no paint to chip*
- SUITABLE FOR RADIOACTIVE AND CLEAN ROOM WORK—*all the qualities of expensive coved stainless steel at ½ the price—easily supports 2,000 lbs. of shielding*
- LOW-VELOCITY, BY-PASS DESIGN—*constant face velocity, minimum turbulence*
- WEIGHS ONLY 230 LBS.—*easy to install, less expensive to ship*
- RIGID DUAL-WALL CONSTRUCTION—*plumbing and wiring enclosed in 5" wide space*



# FIBERGLASS ADVANCE-70 FUME HOOD / features

LABCONCO Fiberglass Fume Hoods are manufactured of polyester resins reinforced with glass fibers. This material, with LABCONCO's unique construction techniques, provides you with a one-piece, strong, porcelain-like surface, inside and out, that is non-porous, chemically resistant and fire retardant.



## WORKING SURFACE SUPPORT

The Fiberglass Advance-70 has a fiberglass working surface included as an integral part of the hood, but it is necessary to support this surface. This support may be a standard laboratory top material or any of the suitable materials such as wood or masonite. See page 28 for pre-cut supports

available from LABCONCO. If your plan includes new cabinets, we suggest the cabinet set on page 28 which includes a suitable top. If you are planning to install the hood on existing cabinets, your present top, suitably modified, should suffice.

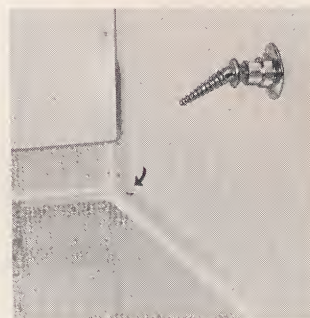
## EXPLOSION-PROOF MODEL

An explosion-proof version of the Advance-70 Fume Hood is available. It has an explosion-proof light and two explosion-proof switches (one for the blower and one for the light). The light complies with Class I, Groups C and D of the Underwriters' Laboratories. The switches comply with UL Class I, Groups C and D and Class II, Groups E, F, and G. It should, of course, be used with an explosion-proof motor and blower. This model does not include 115 volt and 250 volt utilities, because they are not explosion-proof. The explosion-proof light must be suspended within the hood and thus detracts somewhat from the no-projections, no-seams hood interior. All other features of this model are the same as the standard Advance-70 Fume Hood.



## QUICK AND EASY TO CLEAN

The smooth-as-glass surface and gently coved corners of the one-piece interior—back, sides and bottom—make wash down quick and easy. There are no joints, cracks or hard-to-reach spots to collect undesirable residue.



## SEAMLESS, ONE-PIECE INTERIOR

The inside of the Fiberglass Advance-70 Fume Hood is molded in one piece of polyester resin and reinforcing glass fibers. This method of construction eliminates seams, prevents the formation of cracks or crevices. Dirt, residue and other contaminants won't collect on the interior surfaces of this hood.



## FIRE AND CHEMICAL RESISTANT

Fiberglass reinforced polyester is chemically inert and corrosion-proof. This material will not support combustion.

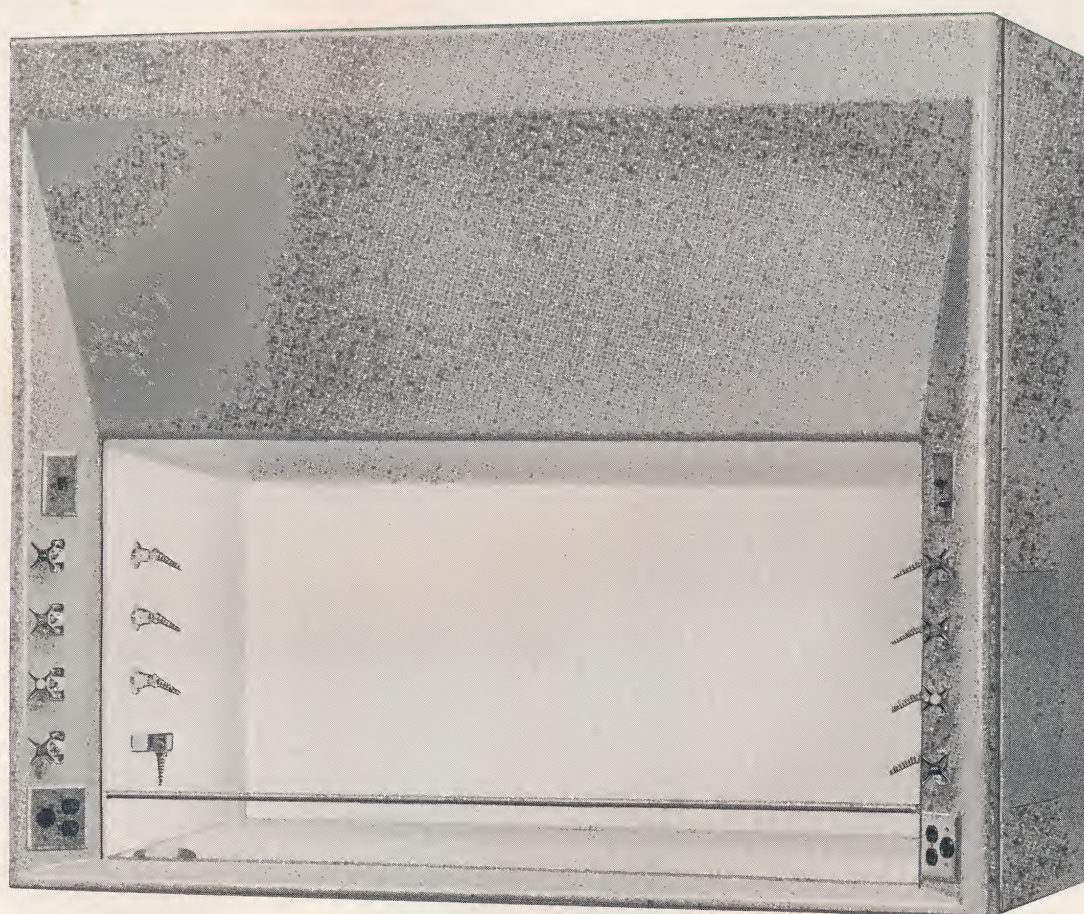


## MINIMUM TURBULENCE

The smooth entrance planes and foil of the Advance-70 cause the air to enter in a smooth, even flow. Thus, the hood can operate at much lower velocities than conventional hoods. A constant face velocity is maintained by the by-pass aperture which opens as the sash is lowered.



## FIBERGLASS ADVANCE-70 FUME HOOD / *features*



### PLEXIGLASS SASH

The sash on the Advance-70 is made of  $\frac{1}{4}$ " Plexiglass. It is coated with a clear resistant formula which prevents clouding, reduces static attraction, and adds to the resistance. The shatter-proof sash operates smoothly on plastic covered steel cables and nylon sheaves. The sash is counter-balanced by enclosed weights.

### RIGID DUAL-WALL CONSTRUCTION

The walls of the Advance-70 Fume Hood have a 5-inch air space between them. This space is the passage way for the utility connections. The large service panel on the exterior walls of the hood allows convenient access to the utility connections concealed inside.

### SAFE CUP SINK

The cup sink in the Advance-70 is an integral part of the working surface. This six-inch round cup sink is located in the left-front corner, allowing operator to use safely without reaching over any apparatus or chemicals in the hood. The cup sink is also used as a drain when the hood is being washed down.

### ALL UTILITIES INCLUDED

The Advance-70 comes complete with:

- 2 gas outlets
- 2 vacuum outlets
- 4 115 volt outlets
- 2 cold water outlets
- 2 air outlets
- 2 250 volt outlets
- 1 light switch
- 1 blower switch
- 1 cup sink

The plastic-coated brass fixtures have color coded index buttons. Equipment is installed at the factory. Substitutions may be made only on quantity orders.

### ADJUSTABLE BAFFLE

The baffle in the back of the Advance-70 is set to balance the air flow between the upper exhaust vent and the vent at the working surface level. Furnished with the hood are two removable Plexiglass clips which permit regulation of the air flow at the upper vent. In this manner, air flow adjustment is accomplished without knobs, slots or bolts, which can collect contamination.



# ADVANCE-70 FUME HOOD / *with provision for inducing air*

The LABCONCO Fiberglass Advance-70, with all of its new and exciting features, is available with factory installed air ducts ready for connection to an external inducing and exhausting air system.

With the proper motor and blower selection any desired face velocity may be maintained. You may draw as little or as much air from the laboratory as you wish. Thus, substantial savings are possible in heating and air conditioning costs.

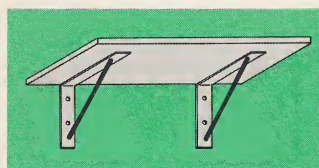
The old  
"cold neck"  
method



The new  
LABCONCO  
method



## ADVANCE-70 FUME HOOD / *accessories*

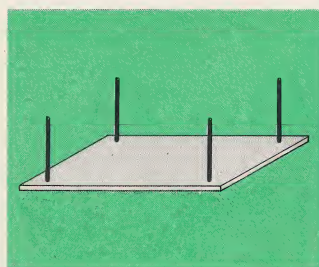


Catalog Number  
70134

### WALL SHELF

Wall shelf support for motor and blower. Sturdy welded steel frame with 1 1/4" Colorlith mounting surface measuring 24" x 30".

Ship. Wt. 30 lbs. Price \$46.00

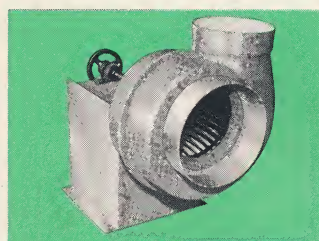


Catalog Number  
70135

### SUSPENDED PLATFORM

Ceiling suspended platform support for motor and blower. The 1 1/4" Colorlith platform measures 24" x 30". Thirty-six-inch long threaded 1/2" steel rods support the platform. Shorter rods available at same cost. Please specify desired rod length if less than 36".

Ship. Wt. 35 lbs. Price \$46.00

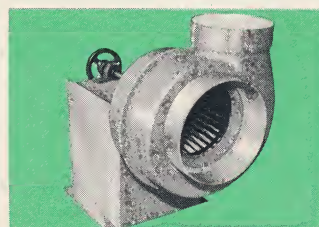


Catalog Number  
70506

### MOTOR AND BLOWER

Fiberglass laboratory blower and motor set. The fiberglass blower and non-sparking epoxy-coated aluminum impeller will draw 977 cfm at 1/4" sp. This will give the Advance-70 Fume Hoods an 80' face velocity. The motor is 1/2 hp, 60 cycle, 120 volt, single phase, and operates at 1200 rpm.

Ship. Wt. 50 lbs. Price \$195.00



Catalog Number  
70507

### MOTOR AND BLOWER

Explosion-proof fiberglass laboratory blower and motor set. Same as above except that the motor is explosion proof. UL approved, Class I, Group D, and Class II, Groups E, F, & G.

Ship. Wt. 50 lbs. Price \$280.00



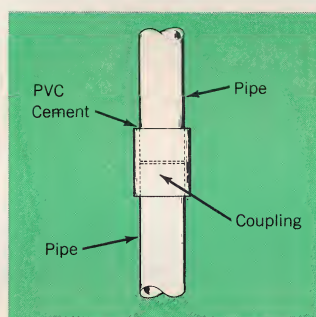
### SPIRAL TUBE

For semi-permanent hood installations, this spiral pipe serves very well. It is a highly resistant neoprene impregnated fiberglass reinforced with wire tubing. This type of stack simplifies hood installations.

Catalog Number  
70277

Description  
11" Spiral Tube, 10-ft. length

Ship. Wt. Price  
\$97.00



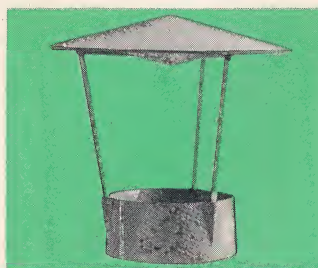
### PLASTIC PIPE

Lightweight, resistant plastic pipe is excellent to exhaust the Fiberglass-47 Fume Hoods. For joining two sections a coupling is required. Connections are simply made by solvent welding. This rigid thermoplastic extruded pipe is cut without special tools. Its ease of installation more than makes up for the slightly higher initial material cost.

Catalog Number  
70272  
70273  
70274  
70275

Description  
10" Plastic Pipe, 10-ft. length  
10" 90-degree Elbow Coupling  
10" 45-degree Elbow Coupling  
10" Straight Coupling

Ship. Wt. Price  
50 lbs. \$80.00  
12 lbs. \$55.00  
12 lbs. \$42.00  
5 lbs. \$20.00



### FIBERGLASS WEATHER CAP

Many caps or hoods placed over the top of an outside stack or flue will cause an undesirable back pressure. To avoid this, we have designed a new Fiberglass Weather Cap which eliminates back pressure and is completely resistant to corrosion and weather. Fits 10" Plastic Pipe (above).

Catalog Number  
70276

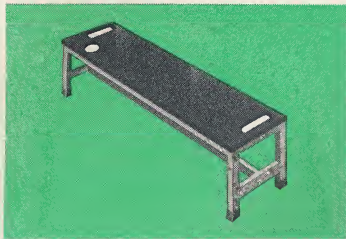
Description  
Fiberglass Weather Cap

Ship. Wt. Price  
5 lbs. \$40.00

A complete line of fiberglass laboratory blowers is described on Page 30.



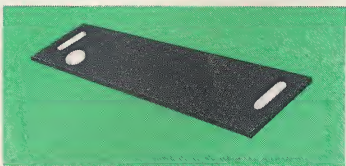
## ADVANCE-70 FUME HOOD / accessories



### SUPPORTING BASE TABLE

Supporting base table. Designed to support the Advance-70 Fume Hood. Measures 70"x 30"x37". Frame of 2", all-welded, square steel tube with adjustable floor flanges. Same top as 70120 below. Colors: to match hoods.

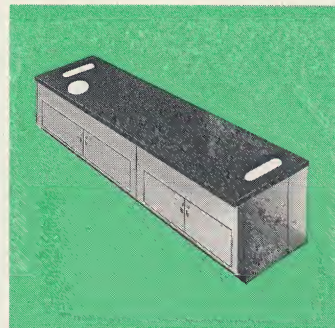
Catalog Number	Description	Ship. Wt.	Price
70192	Green	425 lbs.	\$240.00
70193	Gray	425 lbs.	\$240.00



### SUPPORTING TOP

Supporting top. For use with existing cabinets. This 70" x 30" x 1 1/4" tempered Masonite has cutouts for sink and utilities.

Catalog Number	Ship. Wt.	Price
70120	135 lbs.	\$85.00



### SUPPORTING BASE CABINET

Supporting base cabinet set. Consists of two three-foot cabinets (total dimensions: 70" x 30" x 37") designed to support the Advance-70 Fume Hood. Top of 1 1/4" tempered masonite with cutouts for sink and utilities. Cabinets meet steel laboratory furniture specifications and are available in green or gray to match the hoods.

Catalog Number	Description	Ship. Wt.	Price
70194	Green	425 lbs.	\$395.00
70195	Gray	425 lbs.	\$395.00

## ADVANCE-70 FUME HOOD / prices and specifications

**70190—FIBERGLASS ADVANCE-70 FUME HOOD.** 70" x 34" x 60" high, superstructure only. Unit to have a seamless one-piece fiberglass interior including sides, back, working surface and cup sink. Hood to have 6 remote control utility outlets and 4 115- and 2 250-volt outlets, cup sink, blower switch and light switch. All wiring and plumbing to be enclosed between the dual walls. Bottom and back to be special poly laminate, bonded dual-wall, construction. Unit to be finished on all four sides so that it can be placed in center of room and present a pleasing appearance. Unit to include fluorescent light, plexiglass sash, plastic coated steel cables and counter balance weights. Hood to have an automatic air by-pass system which maintains a constant face velocity. GREEN ..... \$995.00  
70191—Same as above but GRAY ..... \$995.00  
Shipping Weight 470 Lbs.

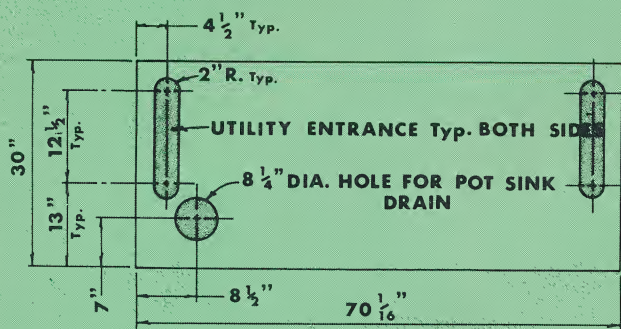
**70152—FIBERGLASS ADVANCE-70 FUME HOOD WITH EXPLOSION-PROOF LIGHT AND SWITCHES.** 70" x 34" x 60" high, superstructure only. Unit to have a seamless one-piece fiberglass interior including sides, back, working surface and cup sink. Hood to have 6 remote control utility outlets, cup sink, blower switch and light switch. All plumbing to be enclosed between the dual walls. Bottom and back to be special poly laminate, bonded dual-wall, construction. Unit to be finished on all four sides so that it can be placed in center of room and present a pleasing appearance. Unit to include plexiglass sash, plastic coated steel cables and counter balance weights. Hood to have an automatic air by-pass system which maintains a constant face velocity. An Explosion-Proof Light UL Class I, Groups C and D and two Explosion-Proof Switches, UL Class I, Groups C and D and Class II, Groups E, F and G, are included. This unit does not include 115-volt and 250-volt electrical outlets. GREEN ..... \$1,160.00  
70153—Same as above, but GRAY ..... \$1,160.00  
Shipping Weight 470 Lbs.

**70196—FIBERGLASS ADVANCE-70 INDUCED AIR FUME HOOD.** 70" x 34" x 60" high, superstructure only. Unit to have a seamless one-piece fiberglass interior including sides, back, working surface and cup sink. Hood to have 6 remote control utility outlets and 4 115- and 2 250-volt outlets, cup sink, blower switch and light switch. All wiring and plumbing to be enclosed between the dual walls. Bottom and back to be special poly laminate, bonded dual-wall construction. Unit to be finished on all four sides so that it can be placed in center of room and present a pleasing appearance. Unit to include fluorescent light, plexiglass sash, plastic coated steel cables and counter balance weights. Hood to have facilities for inducing air into the hood. Unit to be equipped with one 10 3/4 inch I.D. collar to which a central or remotely located exhaust blower may be connected and one 10 3/4 inch I.D. collar to which a central or remotely located inducing blower may be connected. GREEN ..... \$1,095.00  
70197—Same as above but GRAY ..... \$1,095.00  
Shipping Weight 470 Lbs.

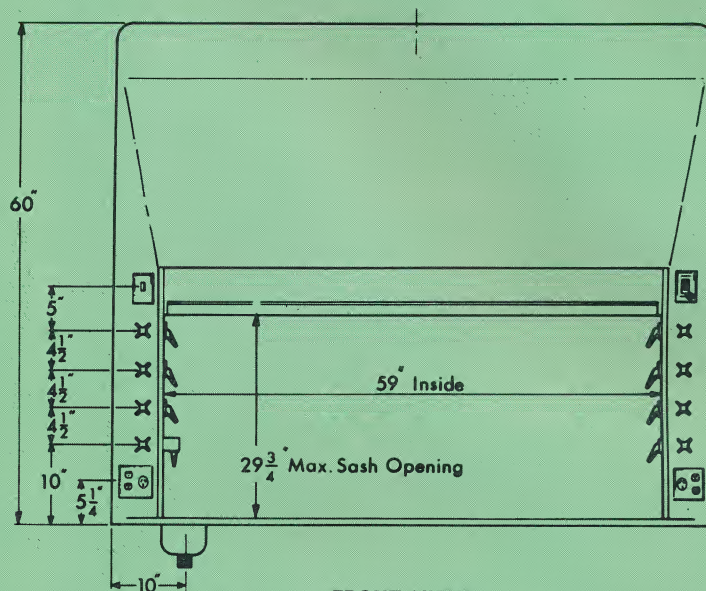
**70198—FIBERGLASS ADVANCE-70 INDUCED AIR FUME HOOD WITH EXPLOSION-PROOF LIGHT AND SWITCHES.** 70" x 34" x 60" high, superstructure only. Unit to have a seamless one-piece fiberglass interior including sides, back, working surface and cup sink. Hood to have 6 remote control utility outlets, cup sink, blower switch and light switch. All plumbing to be enclosed between the dual walls. Bottom and back to be special poly laminate, bonded dual-wall, construction. Unit to be finished on all four sides so that it can be placed in center of room and present a pleasing appearance. Unit to include plexiglass sash, plastic coated steel cables and counter balance weights. Hood to have facilities for inducing air into the hood. Unit to be equipped with one 10 3/4 inch I.D. collar to which a central or remotely located exhaust blower may be connected and one 10 3/4 inch I.D. collar to which a central or remotely located inducing blower may be connected. An Explosion-Proof Light UL Class I, Groups C and D and two Explosion-Proof Switches, UL Class I, Groups C and D and Class II, Groups E, F and G, are included. This unit does not include 115-volt and 250-volt electrical outlets. GREEN ..... \$1,260.00  
70199—Same as above but GRAY ..... \$1,260.00  
Shipping Weight 470 Lbs.



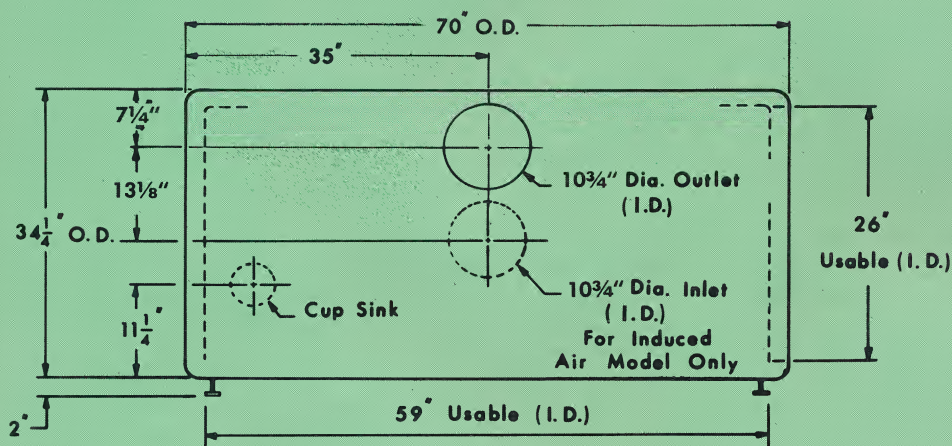
# ADVANCE-70 FUME HOOD / *dimensional data*



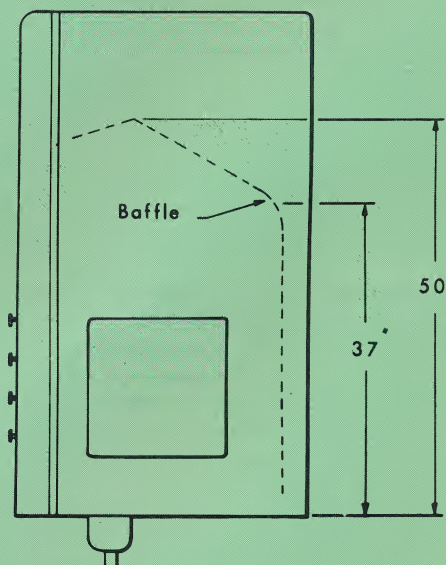
HOOD SUPPORT LAYOUT FOR  
ADVANCE-70



FRONT VIEW



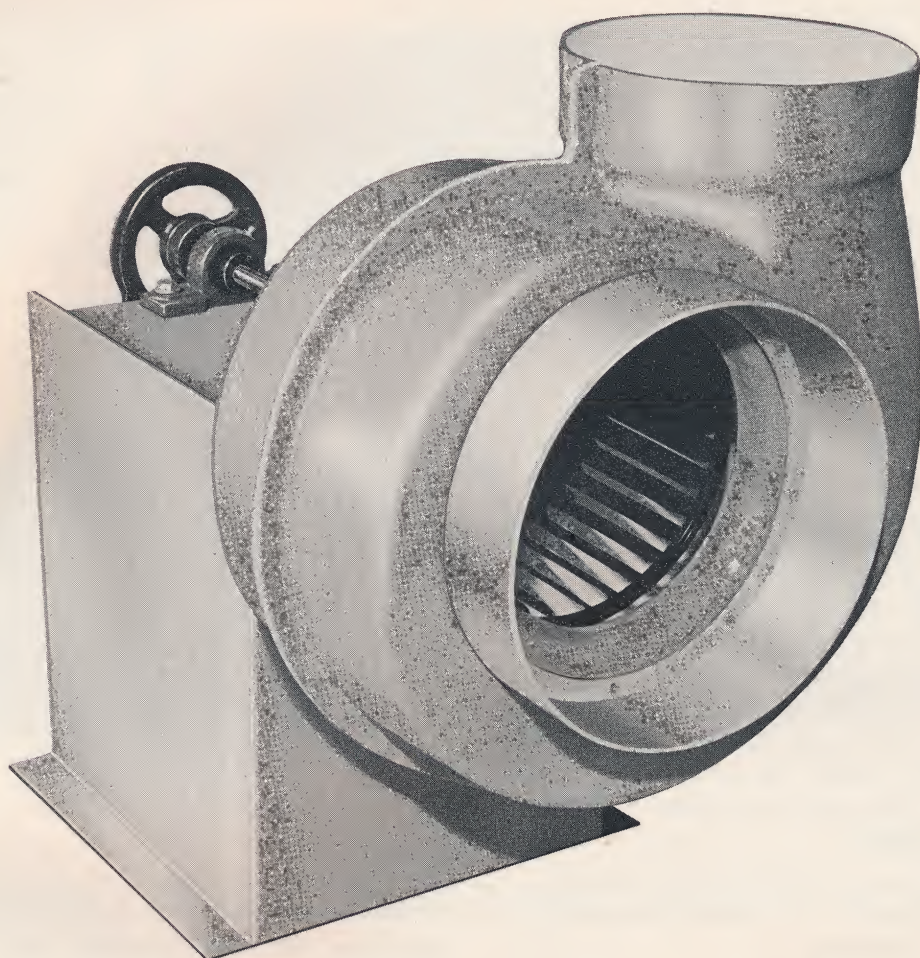
TOP VIEW



SIDE VIEW

The Advance-70 Fume Hood is shipped completely assembled. The face of the hood (7-inches) can be removed to permit passage through narrow doorways.





## FIBERGLASS LABORATORY BLOWERS

The LABCONCO Fiberglass corrosion-proof blower is molded entirely of polyester resins and reinforced with glass fibers. This is the same material used in LABCONCO Fiberglass Fume Hoods and Fiberglass Glove Boxes. Each blower is equipped with a corrosion-proof, epoxy-coated aluminum impeller.

- CORROSION-PROOF BLOWER
- CORROSION-PROOF IMPELLER
- SMOOTH, GLASS-LIKE INTERIOR
- SIMPLE INSTALLATION
- WIDE CFM RANGE AVAILABLE



# FIBERGLASS LABORATORY BLOWERS / *prices & specifications*

The new LABCONCO fiberglass blower and motor sets are offered in a variety of sizes to fit your needs.

They may be used with LABCONCO hoods when the factory-mounted blowers are not large enough due to a special venting circumstance or when higher than

normal face velocities are required. Or, they may be used to replace an existing blower for any type hood.

All LABCONCO blowers here listed are equipped with non-sparking epoxy-coated aluminum impellers and corrosion-proof fiberglass blower housings.

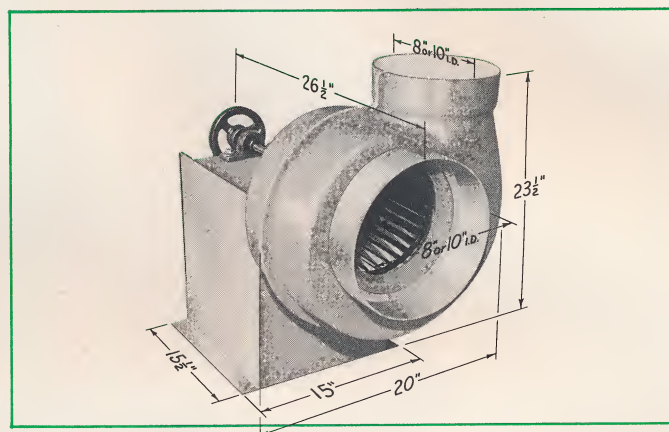
## HOW TO SIZE YOUR BLOWER

1. Decide what face velocity you want (80' per min. is the most common today). "Face velocity" is the volume of air moving into the hood through each square foot of sash opening.
2. Determine the cfm (cubic feet per minute) exhaust you will require by multiplying the number of square feet of sash opening by the desired face velocity. This will give you the cfm.
3. Determine the sp (static pressure) of your venting \* system. With under 30" of stack a normal assumption would be 1/4" sp. The shorter the length of stack and the fewer bends the lower the static pressure. \*(Correction: Should read 30 ft. - not 30")

## HOW TO USE THE CHART

1. When you have determined the sp (i.e., 1/8", 1/4", etc.) go to the vertical column (table below) where the heading is closest to that sp.
2. Go down the column to the cfm which is closest to your requirements.

*dimensional data*



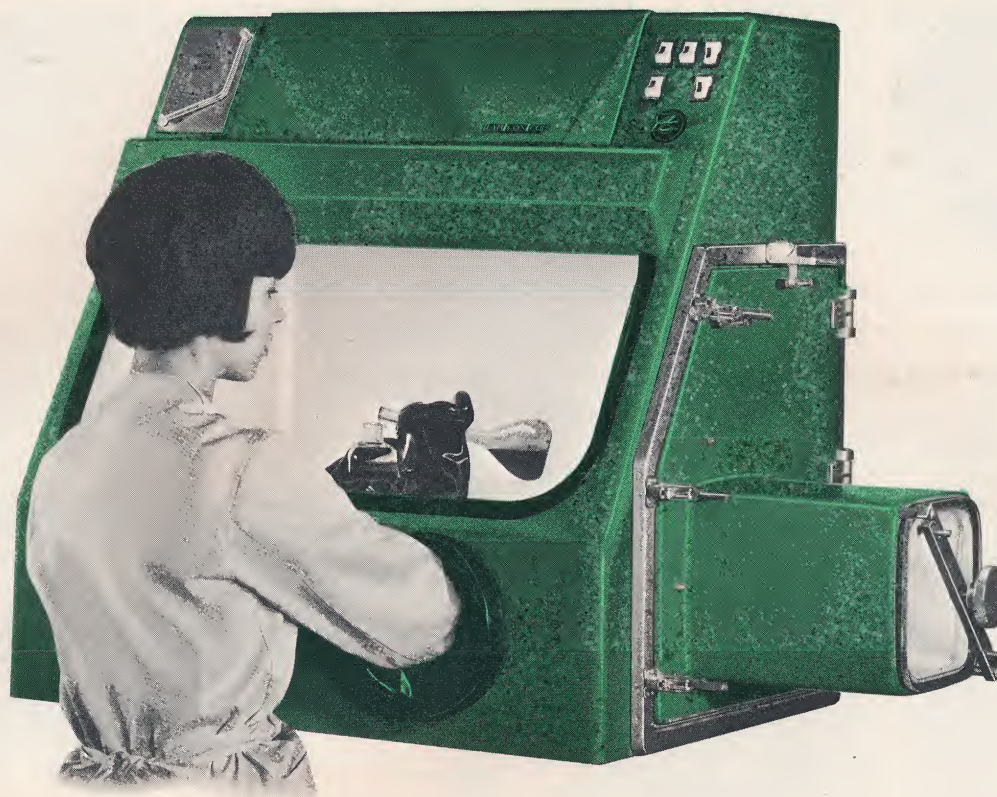
3. You then get the catalog number of a proper blower by checking the corresponding number in the extreme left column. Note that the odd numbers are explosion-proof UL approved class I, Group D and Class II, Groups E, F, G motors. The even numbers are standard split phase motors.

CATALOG NUMBERS 8" Inlet & Outlet	CATALOG NUMBERS 10" Inlet & Outlet	PRICE	H.P.	BLOWER RPM	FREE AIR CFM	1/8" sp CFM	1/4" sp CFM	3/8" sp CFM	5/8" sp CFM	7/8" sp CFM
70600	70500	\$185.00	1/4	600	555	420	---	---	---	---
70601*	70501*	\$230.00								
70602	70502	\$185.00	1/4	800	746	648	492	---	---	---
70603*	70503*	\$230.00								
70604	70504	\$185.00	1/3	1000	985	901	803	710	---	---
70605*	70505*	\$230.00								
70606	70506	\$195.00	1/2	1200	1112	1058	977	931	730	---
70607*	70507*	\$280.00								
70608	70508	\$230.00	3/4	1400	1268	1221	1184	1131	1040	864
70609*	70509*	\$300.00								
70610	70510	\$300.00	1	1600	1440	1400	1350	1268	1215	1120
70611*	70511*	\$315.00								
70612	70512	\$300.00	1	1725	1569	1512	1478	1402	1302	1250
70613*	70513*	\$315.00								

\*EXPLOSION-PROOF MODELS

Shipping Wt. Approx. 71 Lbs.





## LABCONCO FIBERGLASS GLOVE BOXES

In 1965 LABCONCO introduced a complete line of Fiberglass Glove Boxes. There are three basic uses for glove boxes in the modern laboratory ...radiology, controlled atmosphere procedures and bacteriology. There is a LABCONCO Fiberglass Glove Box designed specifically for each use. LABCONCO also makes a complete line of optional equipment and glove box accessories as well as a Tissue Culture Hood for culture planting and tissue staining.

- A LABCONCO FIBERGLASS GLOVE BOX FOR ANY PURPOSE
- CONTROLLED ATMOSPHERE
- RADIOISOTOPE
- BACTERIOLOGICAL
- TISSUE CULTURE HOOD



# Fiberglass, the perfect material for glove boxes! Here's why:

LABCONCO Glove Boxes are manufactured of polyester resins reinforced with glass fibers. This material, with LABCONCO's unique poly laminate construction technique, provides you with a one-piece, strong, porcelain-like surface, inside and out,

that is nonporous, chemical resistant and fire retardant. The superior strength of poly laminate construction also eliminates the need for bulky side walls that take up your valuable space inside, or outside the equipment.

## QUICK AND EASY TO CLEAN



There are no sharp corners in LABCONCO Glove Boxes. The one-piece, porcelain-like fiberglass surface and gently coved corners, inside and out, can be wiped clean, sterilized or decontaminated quickly and easily by simply wiping with a sponge or cloth. There are no joints, cracks or hard-to-reach spots to collect undesirable residue.

## CORROSION-RESISTANT



Fiberglass reinforced polyester is chemically inert and corrosion-resistant.

## CHEMICAL RESISTANCE

TEST: Immerse 1"x4" specimen in 100% vapor of the concentrated, boiling reagent 30 minutes.

REAGENT VAPORS	SATISFACTORY FOR UNLIMITED SERVICE	SATISFACTORY FOR OCCASIONAL LIMITED SERVICE	DISCOLORATION (Slightly)	UNSATISFACTORY
Sulfuric Acid	X			X
Hydrochloric Acid	X			
Nitric Acid	X			X
Chloroform	X			
Acetone	X			
Benzene	X			
Petroleum Ether	X			
Ammonia	X			
Acetic Acid	X			
Perchloric Acid				X
Hydrofluoric Acid		X		X
Hydrogen Peroxide	X			X
Peracetic Acid	X			
Osmic Acid	X			
Formaldehyde	X			

LABCONCO Fiberglass Glove Boxes are not suitable for use with perchloric acid.

## RUGGED

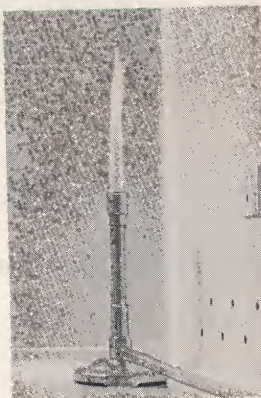
LABCONCO Glove Boxes are solidly constructed of a special corrosion-proof polyester reinforced with glass fibers. The unique bonded double-wall construction gives you added strength and smooth surfaces, inside and out. Cuts your maintenance costs.

Since LABCONCO Glove Boxes are made of fiberglass, there is no paint to peel or crack, no metal to corrode, no wood or transite to absorb chemicals or fumes. No metal, no problems.

## LEAK-PROOF

LABCONCO Glove Boxes with rugged, one-piece fiberglass interiors are free of corner gas-kets. There will be no loss of samples due to leakage.

## FIRE RETARDANT



The fiberglass used in the construction of LABCONCO Glove Boxes will not support combustion. FLAMMABILITY TEST: Tested for fire retardance under the provisions of Tentative Method of Test for Flammability of Rigid Plastic Over 0.050 Inch Thickness. ASTM designation is D635-63.

## CUTS YOUR COSTS

The fiberglass construction of LABCONCO Glove Boxes permits mass production methods. This means uniform quality and substantial savings to you.

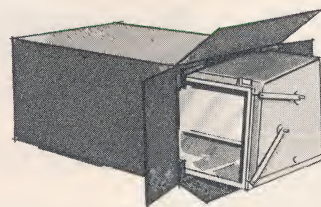
## EASY TO MODIFY

Simple woodworking hand tools are all that you need to modify LABCONCO Glove Boxes. Add accessories or take them out. It is as simple as working with wood.

## MODERN, STREAMLINED DESIGN

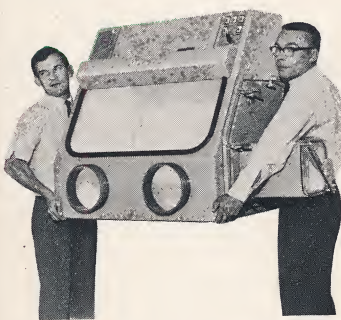
Laboratory equipment actually complements and accents the appearance of your lab. Makes every lab look modern and up-to-date.

## COMPLETELY FACTORY ASSEMBLED



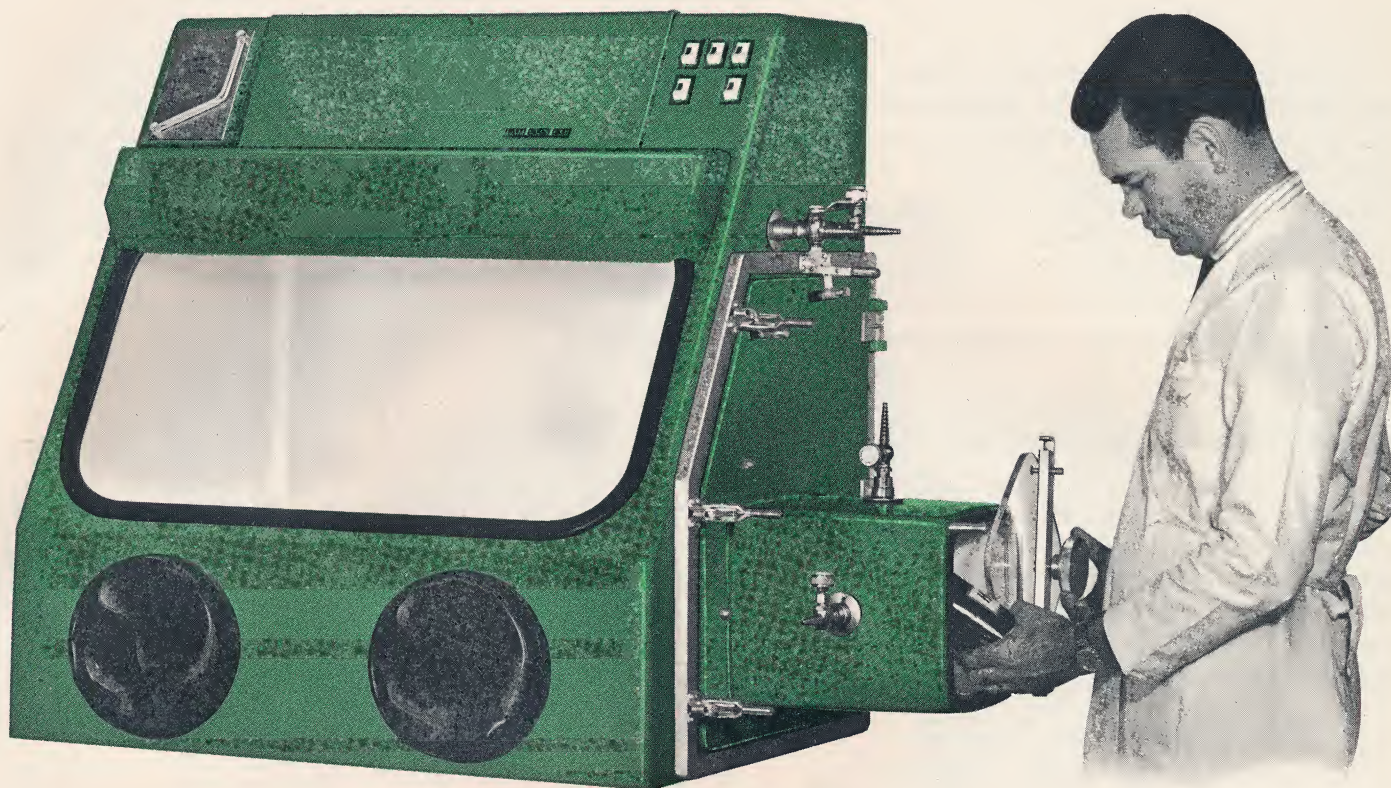
All LABCONCO laboratory equipment is shipped to you completely assembled. All wiring, lights, switches, filters, valves, motors, blowers, and other equipment are factory installed. No installation costs or assembly delays. All you do is plug in and go to work.

## LIGHTWEIGHT



The lightness of fiberglass not only cuts down on your shipping costs, it also means easier handling in the lab. It is easy to pick up and move LABCONCO Glove Boxes. You can rearrange your lab at any time with little trouble, or cost.





## THE LABCONCO FIBERGLASS CONTROLLED ATMOSPHERE GLOVE BOX

The unique one-piece construction of LABCONCO Glove Boxes makes them ideally suited to controlled atmosphere work. The molded, one-piece box is free of corner gaskets for leak-proof, trouble-free performance. Pressure drop at 2" of water will not exceed 1" in 2 hours. Recommended maximum working pressure: 5"; vacuum: 10" of water. LABCONCO's exclusive crack-and-crevice-free, one-piece interior and smooth, porcelain-like surfaces with gently coved corners, inside and out, make it extremely easy to wash down, purge or decontaminate. The extra large interchange compartment allows convenient, fast passage of items in and out of the box. The transfer chamber can be evacuated to 150 microns in 5 minutes using a standard single stage laboratory vacuum pump. Lower pressures, if necessary, may be obtained by using a higher capacity or multi-stage vacuum pump.

- |                                       |  |
|---------------------------------------|--|
| ■ COSTS ONLY \$875.00                 | ■ HOLDS VACUUM OR PRESSURE             |
| ■ ONE-PIECE CONSTRUCTION              | ■ SEVEN FACTORY INSTALLED VALVES       |
| ■ EXTRA-LARGE INTERCHANGE COMPARTMENT | ■ FASTER PURGING                       |
| ■ LARGE, EASY TO OPEN ACCESS DOOR     | ■ UNIQUE INNER DOOR TO INTERCHANGE BOX |



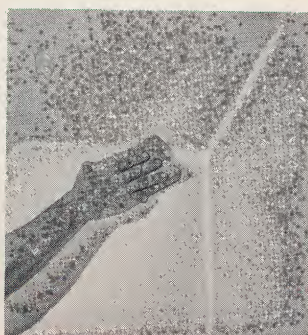
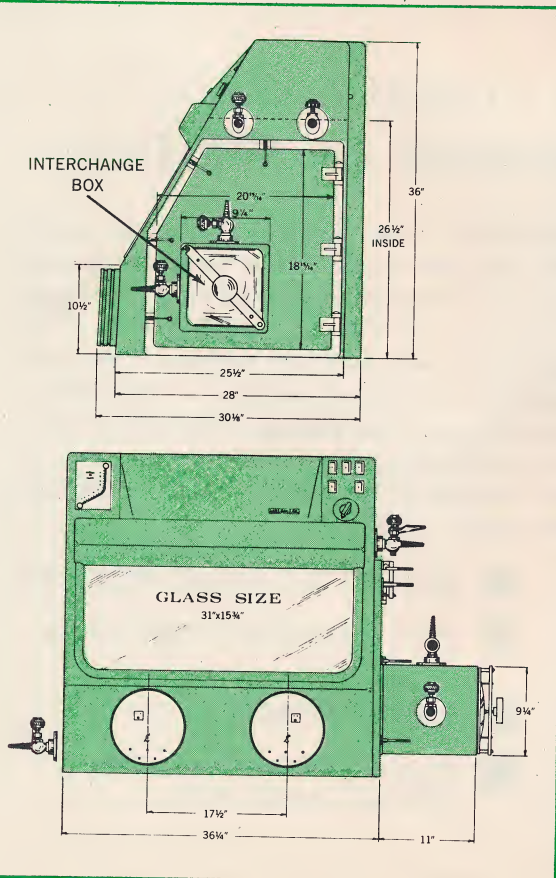
# CONTROLLED ATMOSPHERE GLOVE BOX / features

LABCONCO Fiberglass Glove Boxes are manufactured of polyester resins reinforced with fiberglass. This material, with LABCONCO's unique poly laminate construction technique, provides a one-piece, strong, porcelain-like surface, inside and out, that is nonporous, chemical resistant and fire retardant. The strength of poly laminate construction also eliminates the need for bulky side walls that take valuable working space inside, and valuable bench space outside the box.

## MAXIMUM COMFORT AND OPERATOR EFFICIENCY

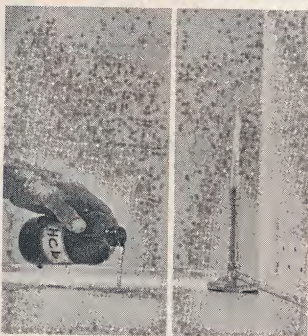
The LABCONCO Fiberglass Controlled Atmosphere Glove Box is engineered for maximum efficiency-in-use and operator comfort. Human design standards controlled the placement and operation of all controls, access ports and lights. Since operators do not have to work in awkward positions, efficiency is maintained, even after long hours.

### *dimensional data*



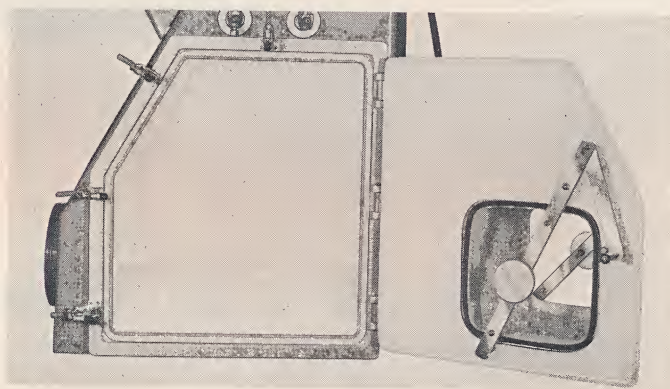
## QUICK AND EASY TO PURGE AND CLEAN

The smooth-as-glass surface and gently coved corners of the one-piece interior—back, sides, bottom and top—make wash down or evacuation quick and easy. There are no joints, cracks, or hard to reach spots; no corner gaskets, drip pans or wooden working surfaces to collect undesirable residue. Large access door also simplifies cleaning.



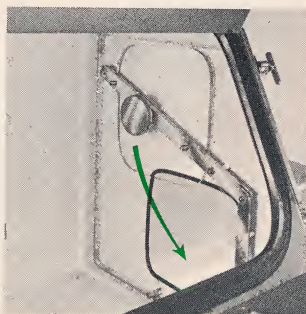
## FIRE AND CHEMICAL RESISTANT

Fiberglass reinforced polyester is chemically inert and corrosion proof. This material will not support combustion.



## LARGE INTERCHANGE BOX AND DOOR

LABCONCO Controlled Atmosphere Glove Boxes are equipped with an unusually large interchange box to allow convenient passage of large items. For very large pieces of equipment, the larger door may be used—over 2 square feet of access area. The vacuum type interchange box is one piece assuring leak-proof performance. It may be evacuated to 150 microns in 5 minutes using a standard single stage vacuum pump. Box will also hold pressures up to 24" of water. It is equipped with two needle valves with serrated tips. Smooth, jointless interior of interchange box permits positive purging.



## UNIQUE INNER DOOR

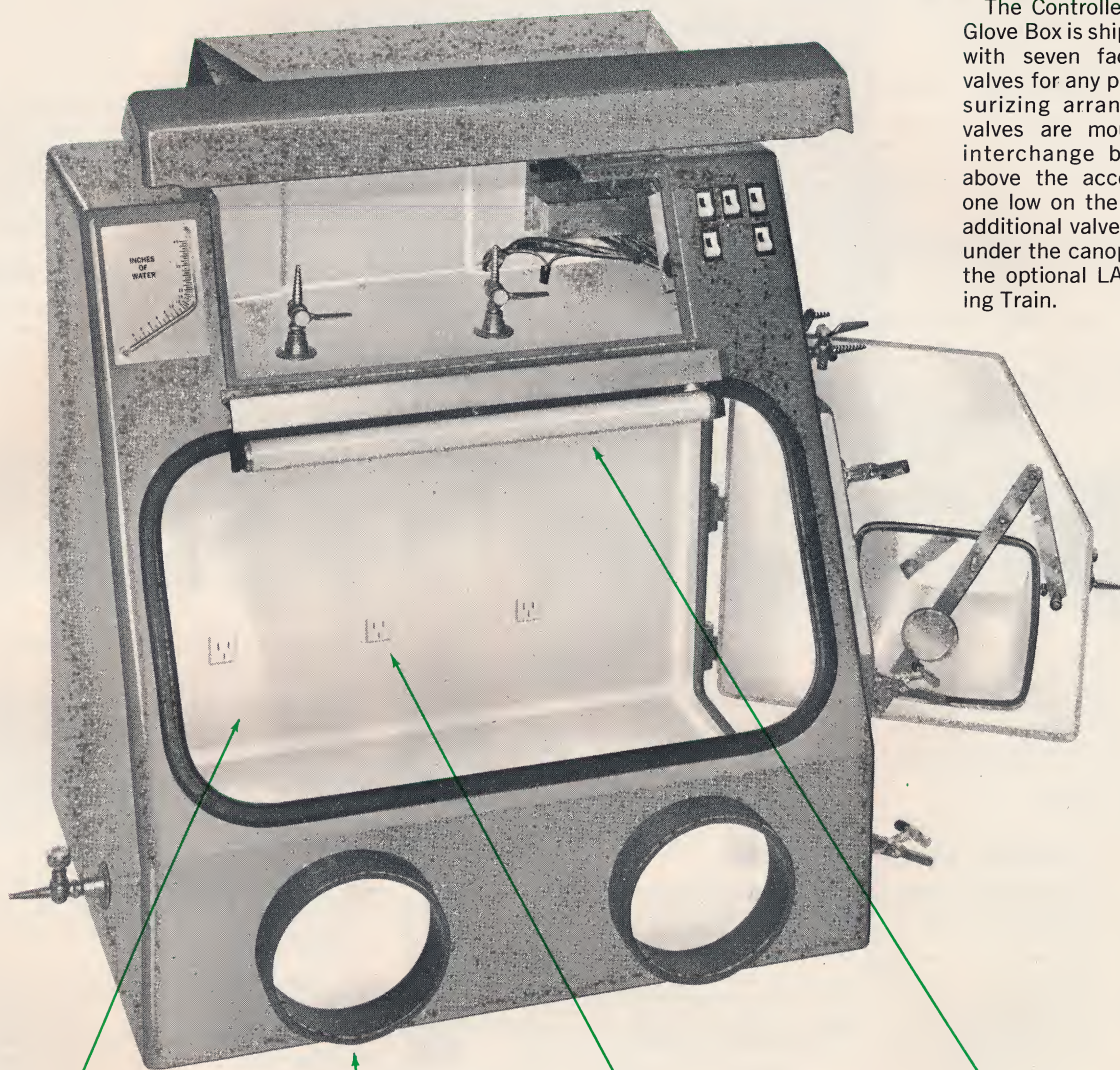
In the LABCONCO Controlled Atmosphere Glove Box, the inner door unclamps easily, then simply moves upward out of the way. In most interchange boxes, the inner door opens inward so that the operator must move equipment to one side and give up valuable working space.



# CONTROLLED ATMOSPHERE GLOVE BOX / *features*

## 7 FACTORY-INSTALLED VALVES

The Controlled Atmosphere Glove Box is shipped complete with seven factory-installed valves for any purging or pressurizing arrangement. Two valves are mounted on the interchange box, two high above the access door, and one low on the left side. Two additional valves are mounted under the canopy for use with the optional LABCONCO Drying Train.



## LARGE SAFETY GLASS VIEWING WINDOW

Maximum observation area is provided by a large 16" x 31" x 1/4" safety glass window. The glass is tightly sealed in place by a specially designed leak-proof, zipper-type gasket. Window slopes 30° from vertical to eliminate glare and operator discomfort.

## COMFORTABLE PORTS

LABCONCO Glove Boxes are fitted with 8" inert plastic glove rings on 17" centers. The large size and spacing makes it possible for people of differing sizes to work with maximum comfort at the same box. Each port is double grooved so that gloves may be changed without disturbing the integrity of the box.

## ELECTRICAL OUTLETS

The Controlled Atmosphere Glove Box is equipped with 3 conveniently placed 3-wire 115-volt, polarized & grounded electrical outlets. Each outlet is equipped with a separate touch operated switch located on the front of the box. Each switch has a built-in light to indicate when the outlet is energized. All switches, outlets and wiring are factory installed. Each outlet is sealed against gas leakage.

## LIGHT, BRIGHT WORKING AREA

A 24" fluorescent light is mounted outside the box at the top of the viewing window. The tube is hooded by the canopy so that all light is directed into the working area. The non-glare interior and adequate light, minimize operator fatigue.



# CONTROLLED ATMOSPHERE GLOVE BOX / accessories

## VARIABLE HEIGHT MOBILE BENCH



No. 80750—This strong, lightweight cast aluminum cart is designed and engineered for use with any LABCONCO Glove Box. It is easily and quickly adjusted to any working height from 30" to 37". Moves freely with loads up to 250 lbs. Equipped with 5" ball bearings, toe-operated lock casters.

Shipping Wt. 92 lbs.

Price \$175.00

## ADD-A-VALVE ASSEMBLIES

Valves may be easily added to a LABCONCO Glove Box. Only common woodworking hand tools are needed to drill a hole through the fiberglass walls. All necessary gasketing materials are furnished with valves.



No. 50050—Needle type valve assembly with two serrated tips and gaskets.

Price \$19.00



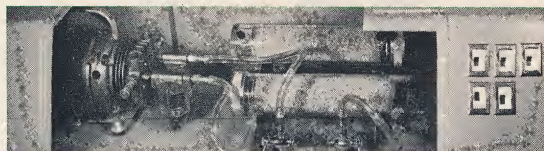
No. 50051—Same as above except one serrated tip.

Price \$16.00



No. 50052—Key cock type valve assembly with one serrated tip and gaskets.

Price \$16.00



## DRYING TRAIN

No. 50064—Unit includes a laboratory type circulation pump rated at 1.1 cfm and two rechargeable Drierite columns (drying agent may be replaced with other media). This unit can be used in conjunction with the two valves, electrical outlet and indicating switch mounted under the hood at the top of all LABCONCO Controlled Atmosphere Glove Boxes. For use with non-corrosive gases only.

Shipping Wt. 25 Lbs.

Price \$188.00

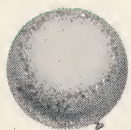
## APPARATUS ROD SUPPORT MOUNTS



No. 50054—By mounting two or more of these in back or on sides of box you can form the base for apparatus rod setups using any standard apparatus rod and clamp assemblies. To attach rods to box, just drill  $\frac{3}{8}$ " holes, using wood-working hand tools, through any area except air passage chamber. Two 5"x $\frac{1}{2}$ " Apparatus Support Mounts, including 4 washers, 4 gaskets, 2 nuts, each rod with one threaded end, are supplied.

Price Per Pr. \$7.50

## EVACUATION BALLOON



No. 50094—A 9-foot, inflated diameter, purge balloon of light 0.003 gauge Latex. May be used, when desired, for displacement evacuation of the LABCONCO Controlled Atmosphere Glove Box.

Price \$8.80

## INTERIOR STORAGE SHELF



No. 50053—This 24"x4" rigid, corrosion-proof shelf makes a convenient out-of-the-way storage place inside the box. Shipped with two apparatus rod support mounts.

Price \$26.00

## GLOVES

### NEOPRENE GLOVES

No. 50055—One-piece seamless 0.015 gauge gloves. Conform to Fort Detrick and Argonne specifications. Overall length 30". Size 7 $\frac{1}{2}$  complete with O rings for use with all LABCONCO Glove Boxes.

Per Pr. \$42.00

No. 50056—Size 9 $\frac{3}{4}$  (same as above) Per Pr. \$42.00

### HALOGEN-FREE NATURAL LATEX GLOVES

No. 50057—Halogen-free, free-sulphur-free, seamless one-piece 0.035 gauge natural Latex gloves. Size 9 $\frac{3}{4}$  (one size only), complete with O rings for use with LABCONCO Glove Boxes.

Per Pr. \$41.50

### STRAIGHT SLEEVE

No. 50058—For use with interchangeable hand. Neoprene straight sleeve may be used with any of the hands listed below. Overall length with hand 30". Sleeve only, 21".

Straight Sleeve only, complete with O rings and spring for use with LABCONCO Glove Boxes.

Per Pr. \$30.25

### ACCORDION SLEEVE FOR USE WITH INTERCHANGEABLE HAND

No. 50059—Neoprene Accordion Sleeve may be used with any of the hands listed below. Overall length with hand 30". Sleeve only, 21".

Accordion Sleeve only, complete with O rings and spring for use with LABCONCO Glove Boxes.

Per Pr. \$49.50

### NEOPRENE HAND ONLY

Lightweight, 0.012 gauge, embossed with firmhold finish. For use with either the straight or accordion sleeves listed above.

No. 50060—Neoprene Embossed Hand, hand only (size 7 $\frac{1}{2}$ ). Per Dozen Pr. \$18.85

No. 50061—Neoprene Embossed Hand, hand only (size 9 $\frac{1}{2}$ ). Per Dozen Pr. \$18.85

### LATEX HAND ONLY

White surgical-type, 0.009 gauge Latex. For use with either the straight or accordion sleeves listed above.

No. 50062—Latex Hand, hand only (size 7 $\frac{1}{2}$ ). Per Dozen Pr. \$11.45

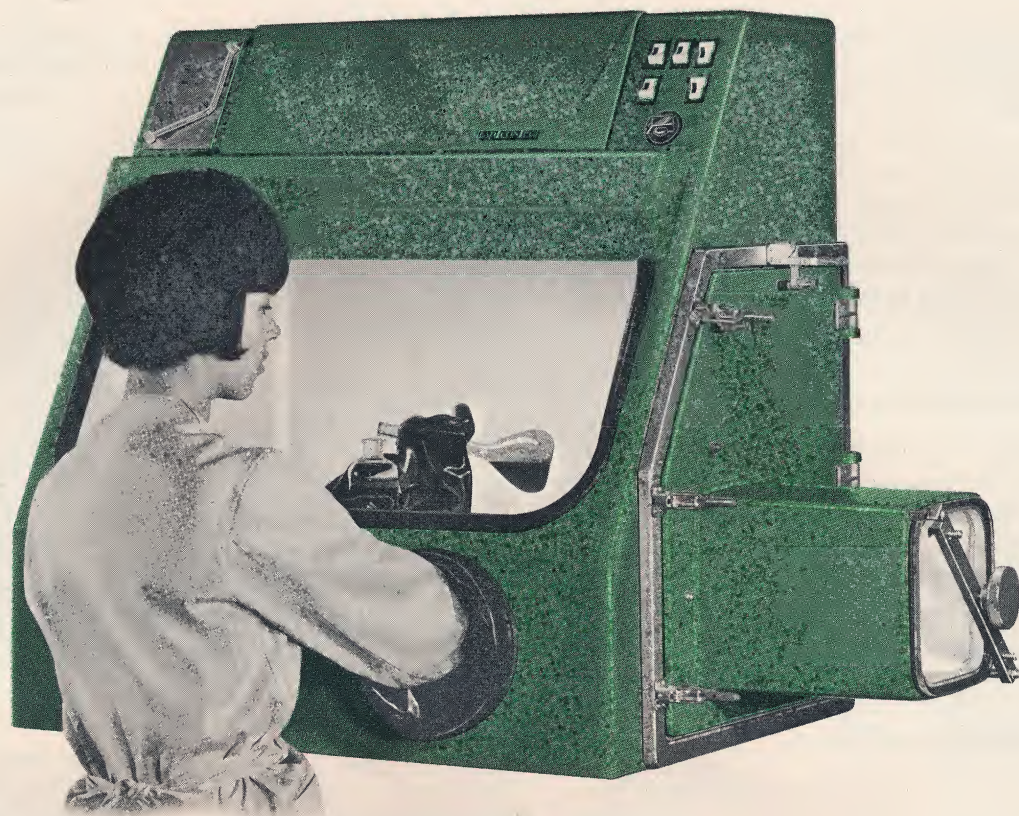
No. 50063—Latex Hand, hand only (size 9 $\frac{1}{2}$ ). Per Dozen Pr. \$11.45

# CONTROLLED ATMOSPHERE GLOVE BOX / prices

No. 50004—Controlled Atmosphere Fiberglass Glove Box, 36"x29"x36", shipped completely assembled including  $\frac{1}{4}$ " safety glass viewing panel, 414 square inch access door with interchange compartment, three 115-volt polarized and grounded electrical outlets with indicating switches, one 24" fluorescent light with fixture and indicating switch, two 8" double grooved glove ports, one pair of neoprene gloves (size 9 $\frac{3}{4}$ ) with clamps, and an 8-ft. 3-wire cord

and plug. Two extra valves and a 115-volt electrical outlet are mounted under the canopy for use with the LABCONCO Drying Train. Unit operates on 115-volt, 60 cycle, AC. The above one-piece molded fiberglass glove box shipped with all equipment completely assembled. GREEN ..... \$875.00  
No. 50005—Same as above. GRAY ..... \$875.00  
Shipping Wt. 165 lbs.





## THE LABCONCO FIBERGLASS RADIOISOTOPE GLOVE BOX

LABCONCO Fiberglass Glove Boxes are ideally suited for radioisotope work. LABCONCO's exclusive crack-and-crevice-free one-piece interior and smooth-as-glass surfaces with gently coved corners, speed up wash down and decontamination. Thus, more operations may be performed in the same box. Several large national laboratories active in the field of radio chemistry have chosen fiberglass as the most suitable material for glove boxes because of these special characteristics. The LABCONCO Glove Box is also engineered for maximum efficiency-in-use and operator comfort. Human design standards directed the placement and operation of all controls, glove ports, access doors and lights.

■ COSTS ONLY \$995 COMPLETE

■ ALL FIBERGLASS

■ ONE-PIECE INTERIOR

■ COVED CORNERS

■ EASILY DECONTAMINATED

■ HARD, NONPOROUS SURFACES

■ VARIABLE SPEED BLOWER

■ CLEAN SWEEP AIR FLOW



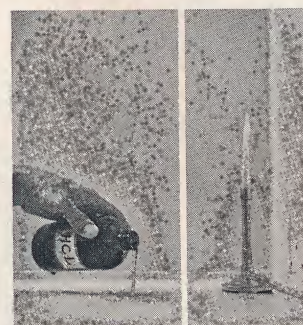
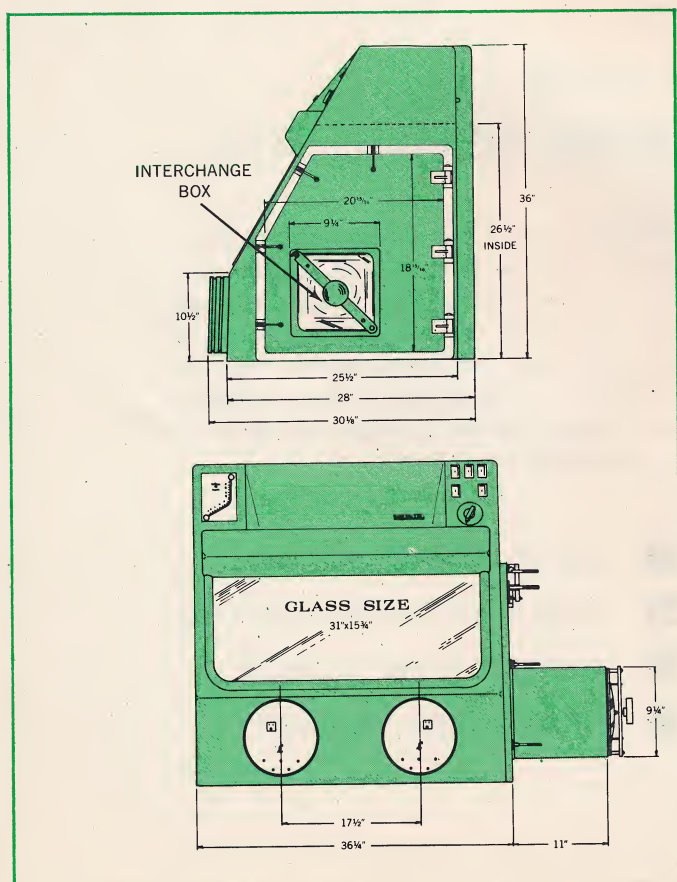
# RADIOISOTOPE GLOVE BOX / features

LABCONCO Fiberglass Glove Boxes are manufactured of polyester resins reinforced with fiberglass. This material, with LABCONCO's unique poly laminate construction technique, provides a one-piece, strong, porcelain-like surface, inside and out, that is nonporous, chemical resistant and fire retardant. The strength of poly laminate construction also eliminates the need for bulky side walls that take valuable working space inside, and valuable bench space outside the box.

## MAXIMUM COMFORT AND OPERATOR EFFICIENCY

The LABCONCO Fiberglass Radioisotope Glove Box is engineered for maximum efficiency-in-use and operator comfort. Human design standards controlled the placement and operation of all controls, access ports and lights. Since operators do not have to work in awkward positions, efficiency is maintained, even after long hours.

### *dimensional data*

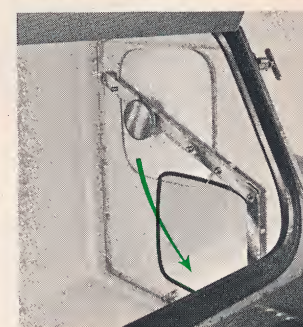
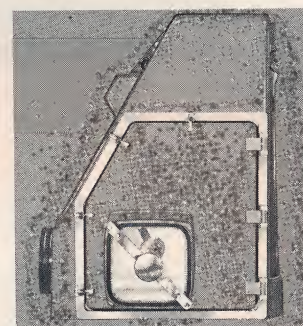


## QUICK AND EASY TO DECONTAMINATE

The porcelain-like surface and gently coved corners of the one-piece interior—back, sides, bottom and top—makes washing down and decontamination quick and easy. There are no joints, cracks or hard-to-reach spots; no corner gaskets, drip pans or wooden working surfaces to collect undesirable residue. Large access door also simplifies cleaning.

## FIRE AND CHEMICAL RESISTANT

Fiberglass reinforced polyester is chemically inert and corrosion proof. This material will not support combustion.

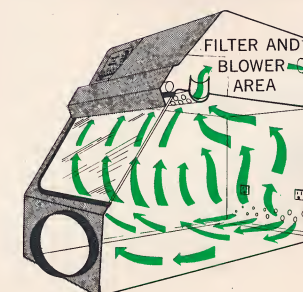


## LARGE INTERCHANGE BOX

The LABCONCO Radioisotope Glove Box is equipped with an unusually large interchange box to allow convenient passage of large items. For very large pieces of equipment, the larger door may be used—over 2 square feet of access area. Smooth one-piece interior of access box permits easy cleaning and decontamination.

## UNIQUE INNER DOOR

With the LABCONCO Glove Box, the inner door unclamps easily then simply moves upward out of the way. In most interchange boxes, the inner door opens inward so that the operator must move equipment to one side and give up valuable working space.

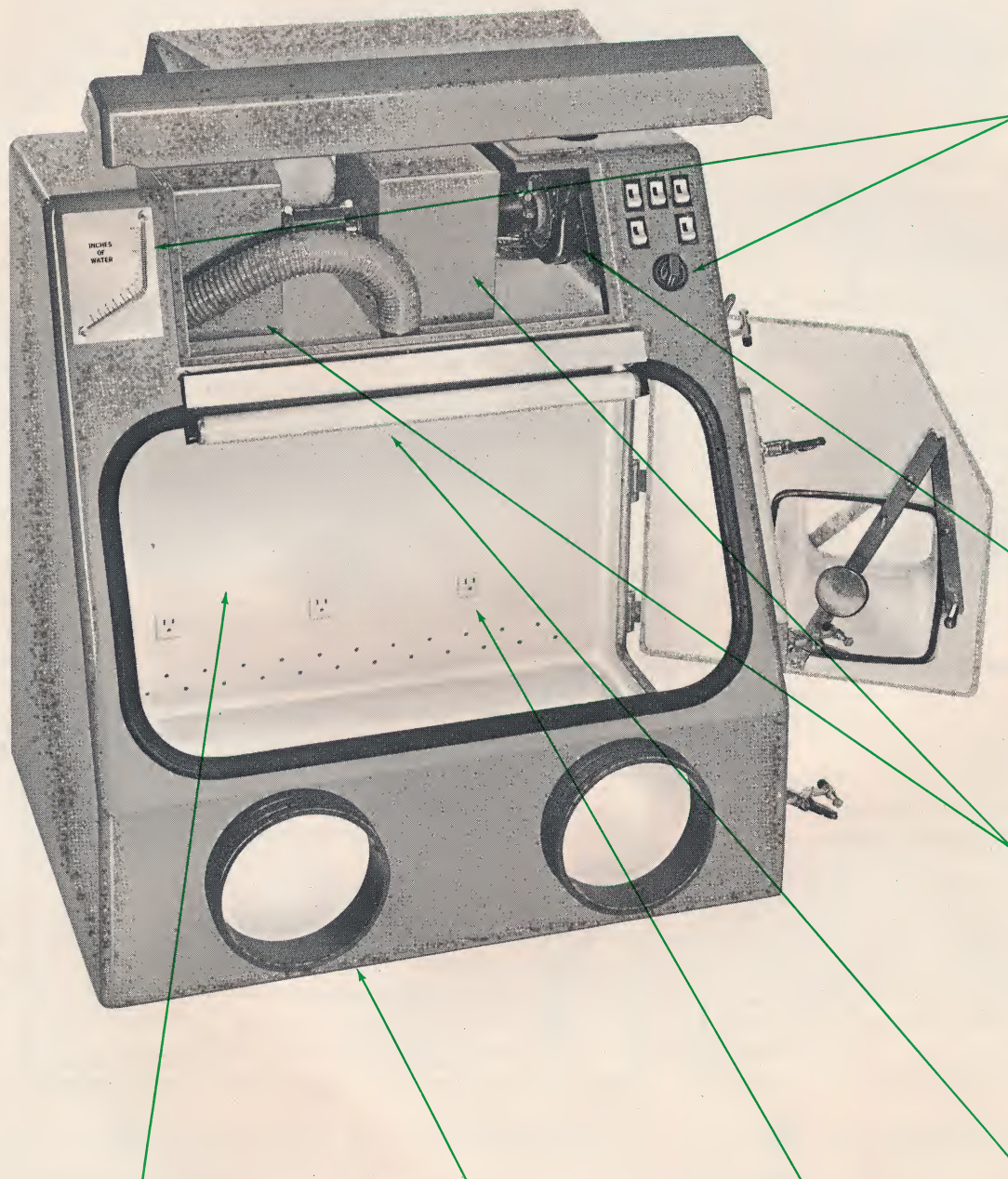


## CLEAN SWEEP AIR FLOW

LABCONCO's unique air flow pattern gives complete air changes inside the box. There are no dead corners. Multiple orifice intakes and exhaust manifolds give an efficient, clean-sweep, air flow pattern. Smooth interior surfaces virtually eliminate turbulence.



# RADIOISOTOPE GLOVE BOX / features



## LARGE SAFETY GLASS VIEWING WINDOW

Maximum observation area is provided by a large 16" x 31" x 1/4" safety glass window. The glass is tightly sealed in place by a specially designed leak-proof, zipper-type gasket. Window slopes 30° from vertical to eliminate glare and operator discomfort.

## COMFORTABLE PORTS

LABCONCO Glove Boxes are fitted with 8" inert plastic glove rings on 17" centers. The large size and spacing makes it possible for people of differing sizes to work with maximum comfort at the same box. Each port is double grooved so that the gloves may be changed without disturbing the integrity of the box.

## ELECTRICAL OUTLETS

The Radioisotope Glove Box is equipped with 3 conveniently placed 3-wire 115-volt, polarized and grounded electrical outlets. Each outlet is operated by a separate touch operated switch located on the front of the box. Each switch has a built-in light to indicate when the outlet is energized. All switches, outlets and wiring are factory installed.

## LIGHT, BRIGHT WORKING AREA

A 24" fluorescent light is mounted outside the box at the top of the viewing window. The tube is hooded by the canopy so that all light is directed into the working area. The non-glare interior and adequate light, minimize operator fatigue.

## MANOMETER, POWERSTAT

Each LABCONCO Glove Box is supplied with an easy to read manometer. After long, continuous use as the filters begin to clog, air flow may be kept constant by simple adjustment of the infinite control powerstat to speed up the motor and blower, thus prolonging the usable life of the filters. Air flow may also be adjusted to overcome air friction in lengthy exhaust duct runs.

## VARIABLE SPEED MOTOR AND BLOWER

The LABCONCO Radioisotope Glove Box is equipped with a 115-volt, 1/25 H.P. variable speed motor and blower. An easy to reach powerstat knob provides infinite speed control from 0 to 75 cfm or up to 3 full air changes per minute. The blower has a 2" diameter exhaust. 40 inches of 2" flexible spiral exhaust tubing, with clamps, is furnished with each glove box.

## FILTERS

The LABCONCO Radioisotope Glove Box is equipped with two outlet filters (Mil. Std. 282). Each filter will remove 99.97% of all particles .3 microns or larger in size. The inlet air filter, both exhaust filters, the motor and blower and all connecting hoses are mounted out of sight under the canopy for a neat uncluttered, dust-free, modern appearance.



## RADIOISOTOPE GLOVE BOX / accessories

### VARIABLE HEIGHT MOBILE BENCH



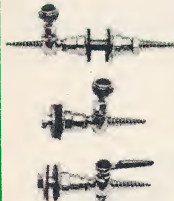
No. 80750—This strong, lightweight cast aluminum cart is designed and engineered for use with any LABCONCO Glove Box. It is easily and quickly adjusted to any working height from 30" to 37". Moves freely with loads up to 250 lbs. Equipped with 5" ball bearings, toe-operated lock casters.

Shipping Wt. 92 lbs.

Price \$175.00

### ADD-A-VALVE ASSEMBLIES

Valves may be easily added to a LABCONCO Glove Box. Only common woodworking hand tools are needed to drill a hole through the fiberglass walls. All necessary gasketing materials are furnished with valves.



No. 50050—Needle type valve assembly with two serrated tips and gaskets. Price \$19.00

No. 50051—Same as above except one serrated tip. Price \$16.00

No. 50052—Key cock type valve assembly with one serrated tip and gaskets. Price \$16.00

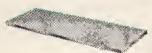
### VENT OUTLET



No. 50095—LABCONCO Glove Boxes may be conveniently vented through a window by substituting plexiglass for the window pane and cutting a 2 1/8" hole in the plexiglass to accept the vent outlet.

Price \$7.00

### INTERIOR STORAGE SHELF



No. 50053—This 24"x4" rigid, corrosion-proof shelf makes a convenient out-of-the-way storage place inside the box. Shipped with two apparatus rod support mounts.

Price \$26.00

### APPARATUS ROD SUPPORT MOUNTS



No. 50054—By mounting two or more of these in back or on sides of box you can form the base for apparatus rod setups using any standard apparatus rod and clamp assemblies. To attach rods to box, just drill 3/8" holes, using wood-working hand tools, through any area except air passage chamber. Two 5"x1/2" Apparatus Support Mounts, including 4 washers, 4 gaskets, 2 nuts, each rod with one threaded end, are supplied.

Price Per Pr. \$7.50

## GLOVES

### NEOPRENE GLOVES

No. 50055—One-piece seamless 0.015 gauge gloves. Conform to Fort Detrick and Argonne specifications. Overall length 30". Size 7 1/2 complete with O rings for use with all LABCONCO Glove Boxes. Per Pr. \$42.00

No. 55056 Size 9 3/4, (same as above). Per Pr. \$42.00

### HALOGEN-FREE NATURAL LATEX GLOVES

No. 50057—Halogen-free, free-sulphur-free, seamless one-piece 0.035 gauge natural Latex gloves. Size 9 3/4 (one size only), complete with O rings for use with LABCONCO Glove Boxes. Per Pr. \$41.50

### STRAIGHT SLEEVE

No. 50058—For use with interchangeable hand. Neoprene straight sleeve may be used with any of the hands listed below. Overall length with hand 30". Sleeve only, 21".

Straight Sleeve only, complete with O rings and spring for use with LABCONCO Glove Boxes. Per Pr. \$30.25

### ACCORDION SLEEVE FOR USE WITH INTERCHANGEABLE HAND

No. 50059—Neoprene Accordion Sleeve may be used with any of the hands listed below. Overall length with hand 30". Sleeve only, 21".

Accordion Sleeve only, complete with O rings and spring for use with LABCONCO Glove Boxes. Per Pr. \$49.50

### NEOPRENE HAND ONLY

Lightweight, 0.012 gauge, embossed with firmhold finish. For use with either the straight or accordion sleeves listed above.

No. 50060—Neoprene Embossed Hand, hand only (size 7 1/2). Per Dozen Pr. \$18.85

No. 50061—Neoprene Embossed Hand, hand only (size 9 1/2). Per Dozen Pr. \$18.85

### LATEX HAND ONLY

White surgical-type, 0.009 gauge Latex. For use with either the straight or accordion sleeves listed above.

No. 50062—Latex Hand, hand only (size 7 1/2). Per Dozen Pr. \$11.45

No. 50063—Latex Hand, hand only (size 9 1/2). Per Dozen Pr. \$11.45

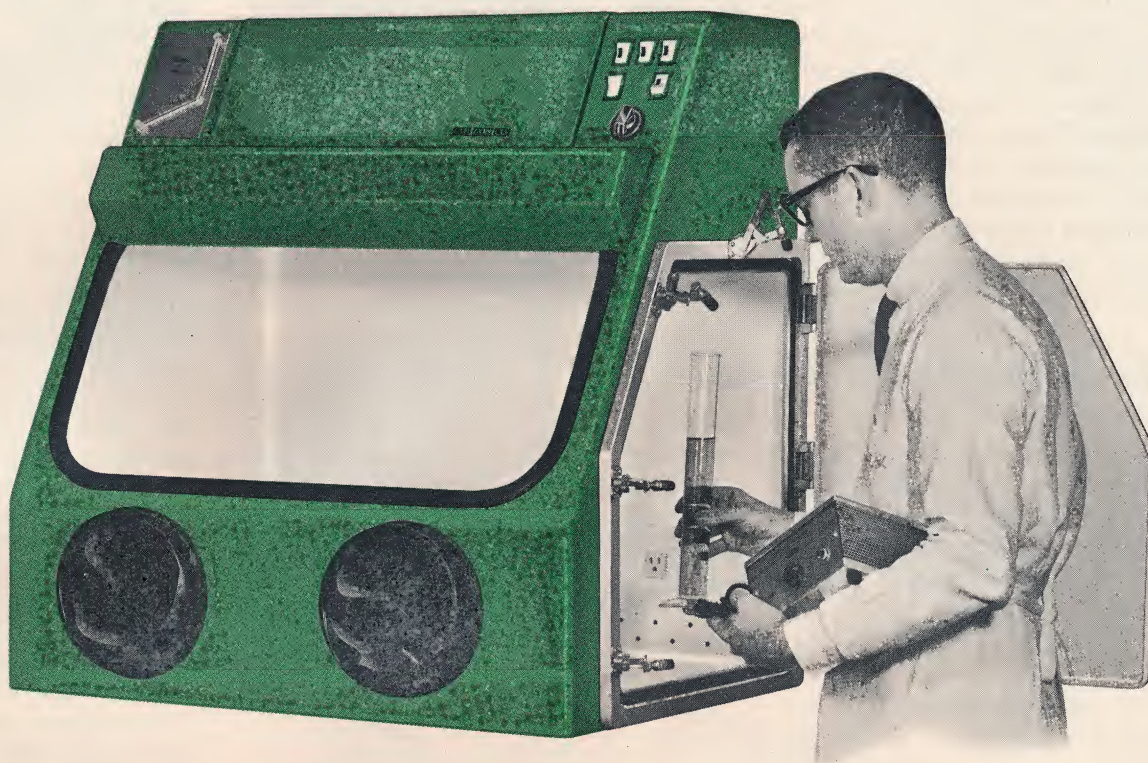


## RADIOISOTOPE GLOVE BOX / prices

No. 50002—Radioisotope Glove Box 36"x29"x36", shipped completely assembled including 1/4" safety glass viewing panel, 414 square inch access door with interchange compartment, three 115-volt polarized and grounded electrical outlets with indicating switches, one 24" fluorescent light with fixtures and indicating switch, two 8" double grooved glove ports, one pair of natural Latex gloves (size 9 3/4); one inlet filter, two absolute filters, with all connecting hoses and 40 inches of 2" spiral exhaust hose with clamps;

a 1/25 H.P., 115-volt variable speed motor and 75 cfm blower with indicating switch and variable speed powerstat, manometer mounted on front of box to indicate air flow and an 8-ft. 3-wire cord and plug are included. Unit operates on 115-volt, 60 cycle, AC. The above, one-piece molded fiberglass glove box shipped with all equipment completely assembled. GREEN ..... \$995.00  
No. 50003—Same as above. GRAY ..... \$995.00  
Shipping Wt. 165 lbs.





## THE LABCONCO FIBERGLASS BACTERIOLOGICAL GLOVE BOX

LABCONCO Fiberglass Bacteriological Glove Boxes have exclusive crack-and-crevice-free one-piece interiors and smooth-as-glass surfaces with gently coved corners, inside and out, to speed up wash down and sterilization. Thus, the *number* of operations that can be performed is increased. The LABCONCO Glove Box is engineered for maximum efficiency-in-use and operator comfort. Human design standards directed the placement and operation of all controls, glove ports, access doors and lights. Since operators do not have to work in awkward positions, efficiency and comfort are maintained even after long hours. The operator, as well as the materials inside the box, is fully protected from contamination.

- COSTS ONLY \$895.00 COMPLETE—  
*ready to plug in and use*
- EASY TO CLEAN AND STERILIZE
- MORE OPERATIONS CAN BE  
PERFORMED IN THE SAME BOX
- ACCESS DOOR IS EXTRA-LARGE,  
EASY TO OPEN

- CLEAN SWEEP AIR FLOW
- VARIABLE SPEED BLOWER
- EFFICIENT LONG LASTING  
FILTERS
- REVERSIBLE AIR FLOW
- ULTRAVIOLET AND  
FLUORESCENT LIGHT



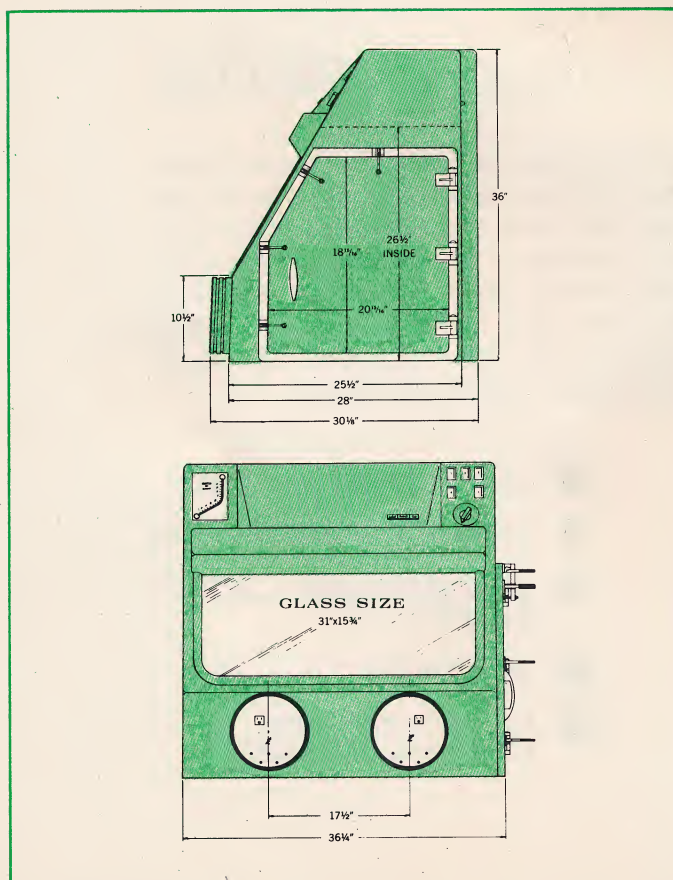
# BACTERIOLOGICAL GLOVE BOX / features

LABCONCO Fiberglass Glove Boxes are manufactured of polyester resins reinforced with fiberglass. This material, with LABCONCO's unique poly laminate construction technique, provides a one-piece, strong, porcelain-like surface, inside and out, that is nonporous, chemical resistant and fire retardant. The strength of poly laminate construction also eliminates the need for bulky side walls that take valuable working space inside, and valuable bench space outside the box.

## MAXIMUM COMFORT AND OPERATOR EFFICIENCY

The LABCONCO Fiberglass Bacteriological Glove Box is engineered for maximum efficiency-in-use and operator comfort. Human design standards controlled the placement and operation of all controls, access ports and lights. Since operators do not have to work in awkward positions, efficiency is maintained, even after long hours.

### *dimensional data*



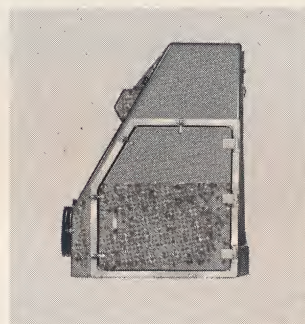
## QUICK AND EASY TO STERILIZE

The smooth-as-glass surface and gently coved corners of the one-piece interior—back, sides, bottom and top—makes wash down and sterilization quick and easy. There are no joints, cracks or hard-to-reach spots; no corner gaskets, drip pans or wooden working surfaces to collect undesirable residue. Large access door also simplifies cleaning.



## FIRE AND CHEMICAL RESISTANT

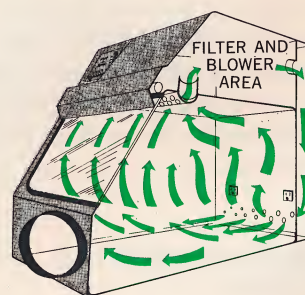
Fiberglass reinforced polyester is chemically inert and corrosion proof. This material will not support combustion.



## LARGE EASY OPEN ACCESS DOOR

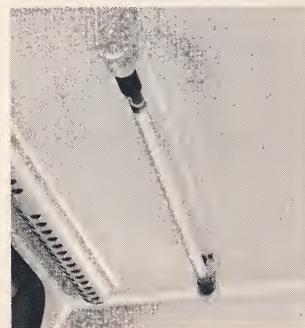
All LABCONCO Glove Boxes have an exclusive extra large door—over two square feet of access area. The door is opened or closed quickly and effortlessly by actuating four simple clamps that keep the door tightly sealed against a neoprene gasket.

## CLEAN SWEEP AIR FLOW



LABCONCO's unique air flow pattern gives complete air changes inside the glove box. There are no dead corners. Multiple orifice intake and exhaust manifolds give an efficient clean-sweep air flow pattern. Smooth interior surfaces virtually eliminate turbulence. **Reversible:** For virology a simple switching of hoses reverses direction of air flow, flooding the box with ultra filtered air.

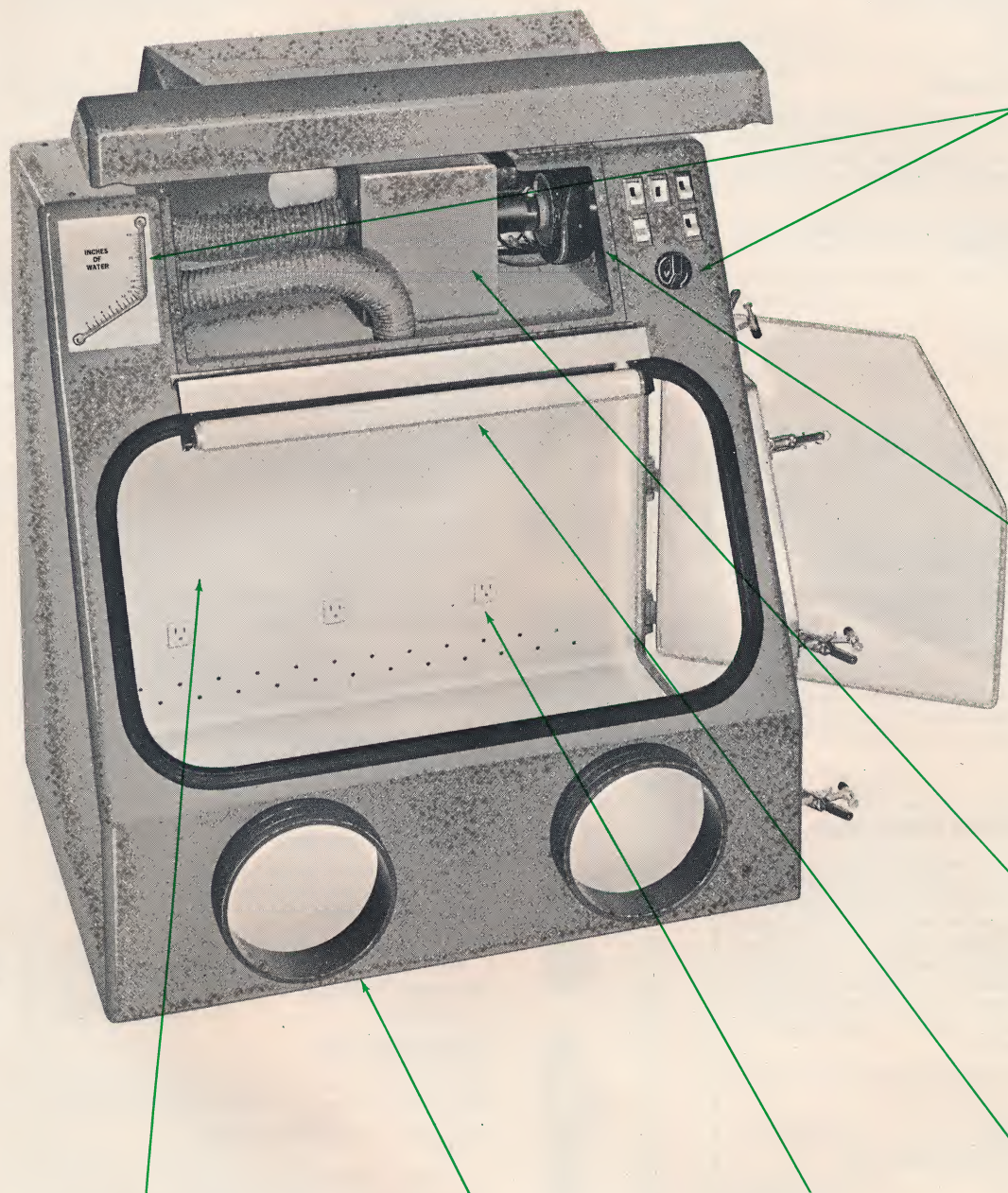
## ULTRAVIOLET GERMICIDAL LIGHT



The interior of the Glove Box may be sterilized by the 24" Ultraviolet germicidal light mounted at the top of the box. It is a 14-watt Mercury lamp which generates 2,537 Angstroms at its predominate wave lengths with an approximate life of 17,500 hours. Its micro watts rating per sq. cm. at 1 meter is 35.



# BACTERIOLOGICAL GLOVE BOX / features



## MANOMETER

Each LABCONCO Glove Box is supplied with an easy to read manometer. After long continuous use the filters will begin to clog. Air flow may be kept constant by simple adjustment of the infinite control powerstat to speed up the motor and blower, thus prolonging the usable life of filters. Air flow may also be adjusted to overcome air friction in lengthy exhaust duct runs.

## VARIABLE SPEED MOTOR AND BLOWER

The LABCONCO Bacteriological Glove Box is equipped with a 115-volt, 1/25 H.P. variable speed motor and blower. An easy to reach powerstat knob provides infinite speed control from 0 to 85 cfm, or up to 4 full air changes per minute. The blower has a 2" diameter exhaust. 40 inches of 2" flexible spiral exhaust tubing, with clamps, is furnished with each glove box.

## FILTERS

The LABCONCO Bacteriological Glove Box is equipped with two filters. The incoming air first passes through a polyurethane inlet filter media. During exhaust, the air from the box moves through the fine filter (Mil. Std. 282) where 99.97% of all particles .3 microns or larger are removed. The inlet air filter, exhaust filter, motor and blower and all connecting hoses are mounted out of sight under the canopy for a neat, uncluttered, dust free, modern appearance.

## LARGE SAFETY GLASS VIEWING WINDOW

Maximum observation area is provided by a large 16" x 31" x 1/4" safety glass window. The glass is tightly sealed in place by a specially designed leak-proof, zipper-type gasket. Window slopes 30° from vertical to eliminate glare and operator discomfort.

## COMFORTABLE PORTS

LABCONCO Glove Boxes are fitted with 8" inert plastic glove rings on 17" centers. The large size and spacing makes it possible for people of differing sizes to work with maximum comfort at the same box. Each port is double grooved so that the gloves may be changed without disturbing the integrity of the box.

## ELECTRICAL OUTLETS

The Bacteriological Glove Box is equipped with 3 conveniently placed 3-wire 115-volt, polarized and grounded electrical outlets. Each outlet is operated by a separate touch operated switch located on the front of the box. Each switch has a built-in light to indicate when the outlet is energized. All switches, outlets and wiring are factory installed.

## LIGHT, BRIGHT WORKING AREA

A 24" fluorescent light is mounted outside the box at the top of the viewing window. The tube is hooded by the canopy so that all light is directed into the working area. The non-glare interior and adequate light, minimize operator fatigue.



# BACTERIOLOGICAL GLOVE BOX / accessories



## VARIABLE HEIGHT MOBILE BENCH

No. 80750—This strong, lightweight cast aluminum cart is designed and engineered for use with any LABCONCO Glove Box. It is easily and quickly adjusted to any working height from 30" to 37". Moves freely with loads up to 250 lbs. Equipped with 5" ball bearings, toe-operated lock casters.

Shipping Wt. 75 lbs.

Price \$175.00

## ADD-A-VALVE ASSEMBLIES

Valves may be easily added to a LABCONCO Glove Box. Only common wood-working hand tools are needed to drill a hole through the fiberglass walls. All necessary gasketing materials are furnished with valves.



No. 50050—Needle type valve assembly with two serrated tips and gaskets. Price \$19.00



No. 50051—Same as above except one serrated tip. Price \$16.00



No. 50052—Key cock type valve assembly with one serrated tip and gaskets. Price \$16.00



## VENT OUTLET

No. 50095—LABCONCO Glove Boxes may be conveniently vented through a window by substituting plexiglass for the window pane and cutting a 2 1/16" hole in the plexiglass to accept the vent outlet.

Price \$7.00

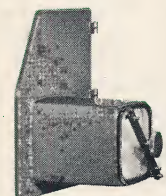
## APPARATUS ROD SUPPORT MOUNTS



No. 50054—By mounting two or more of these in back or on sides of box you can form the base for apparatus rod setups using any standard apparatus rod and clamp assemblies. To attach rods to box, just drill 3/8" holes, using wood-working hand tools, through any area except air passage chamber. Two 5"x1/2" Apparatus Support Mounts, including 4 washers, 4 gaskets, 2 nuts, each rod with one threaded end, are supplied.

Price Per Pr. \$7.50

## INTERCHANGE BOX AND ACCESS DOOR



In some cases it is necessary to have an interchange compartment on a Bacteriological Glove Box. To mount one on LABCONCO's Bacteriological Glove Box it is only necessary to remove the three hinge pins supporting the regular access door and replace the regular door with one that has the interchange compartment molded to it. The interchange box and access door are shipped completely assembled with all the necessary doors, hinges, closing and locking mechanisms and gaskets.

No. 50006—Interchange compartment and access door. Green.

Shipping Wt. 35 lbs.

Price \$155.00

No. 50007—Same as above except gray.

Shipping Wt. 35 lbs.

Price \$155.00



## INTERIOR STORAGE SHELF

No. 50053—This 24"x4" rigid, corrosion-proof shelf makes a convenient out-of-the-way storage place inside the box. Shipped with two apparatus rod support mounts.

Price \$26.00



## GLOVES

### NEOPRENE GLOVES

No. 50055 One-piece seamless 0.015 gauge gloves. Conform to Fort Detrick and Argonne specifications. Overall length 30". Size 7 1/2 complete with O rings for use with all LABCONCO Glove Boxes.

Per Pr. \$42.00

No. 50056—Size 9 3/4 (same as above). Per Pr. \$42.00

### HALOGEN-FREE NATURAL LATEX GLOVES

No. 50057—Halogen-free, free-sulphur-free, seamless one-piece 0.035 gauge natural Latex gloves. Size 9 3/4 (one size only), complete with O rings for use with LABCONCO Glove Boxes.

Per Pr. \$41.50



### STRAIGHT SLEEVE

No. 50058—For use with interchangeable hand. Neoprene straight sleeve may be used with any of the hands listed below. Overall length with hand 30". Sleeve only, 21".

Straight Sleeve only, complete with O rings and spring for use with LABCONCO Glove Boxes.

Per Pr. \$30.25



### ACCORDION SLEEVE FOR USE WITH INTERCHANGEABLE HAND

No. 50059—Neoprene Accordion Sleeve may be used with any of the hands listed below. Overall length with hand 30". Sleeve only, 21".

Accordion Sleeve only, complete with O rings and spring for use with LABCONCO Glove Boxes.

Per Pr. \$49.50



### NEOPRENE HAND ONLY

Lightweight, 0.012 gauge, embossed with firmhold finish. For use with either the straight or accordion sleeves listed above.

No. 50060—Neoprene Embossed Hand, hand only (size 7 1/2). Per Dozen Pr. \$18.85

No. 50061—Neoprene Embossed Hand, hand only (size 9 1/2). Per Dozen Pr. \$18.85



### LATEX HAND ONLY

White surgical-type, 0.009 gauge Latex. For use with either the straight or accordion sleeves listed above.

No. 50062—Latex Hand, hand only (size 7 1/2). Per Dozen Pr. \$11.45

No. 50063—Latex Hand, hand only (size 9 1/2). Per Dozen Pr. \$11.45

# BACTERIOLOGICAL GLOVE BOX / prices

No. 50000—Bacteriological Glove Box 36"x29"x36" shipped completely assembled including 1/4" safety-glass viewing panel, 414 square inch access door, three 115-volt, polarized and grounded electrical outlets with indicating switches, one 24" fluorescent light with fixture and switch, one Ultraviolet light with fixture and safety switch, two 8" double grooved glove ports, 1 pair of neoprene gloves (size 9 3/4); two glove clamps, one inlet filter, one absolute filter, with all connecting hoses and 40 inches of 2" exhaust hose with clamps;

a 1/25 H.P. motor and 85 cfm blower with indicating switch and variable speed powerstat, manometer mounted on front of box to indicate air flow, and an 8-foot 3-wire cord and plug are included. Unit operates on 115-volt, 60 cycle, AC. The above one-piece molded fiberglass glove box shipped with all equipment completely assembled. GREEN ..... \$895.00  
No. 50001, same as above. GRAY ..... \$895.00  
Shipping Wt. 130 lbs.





## THE LABCONCO FIBERGLASS TISSUE CULTURE HOOD

Imagine, a tissue culture enclosure made of fiberglass. Completely smooth, crack-free interior assures easy cleaning, no contamination accumulation. All corners are coved and molded as an integral part of the side panels—no hard-to-clean seams. Only Labconco incorporates so many features for so economical a price.

- \$280.00 COMPLETE—*ready to plug in and use*
- WEIGHS ONLY 50 LBS.—*easy to move, or store when not in use*
- CONTAMINATION-FREE WORKING AREA—*for sterile techniques*
- AIR CIRCULATION-FREE—*for culture planting, tissue staining*
- FULLY PROTECTS TECHNICIAN
- ULTRAVIOLET LIGHT
- HARD, NONPOROUS SURFACES—*easy to sterilize*



# TISSUE CULTURE HOOD / *general features*

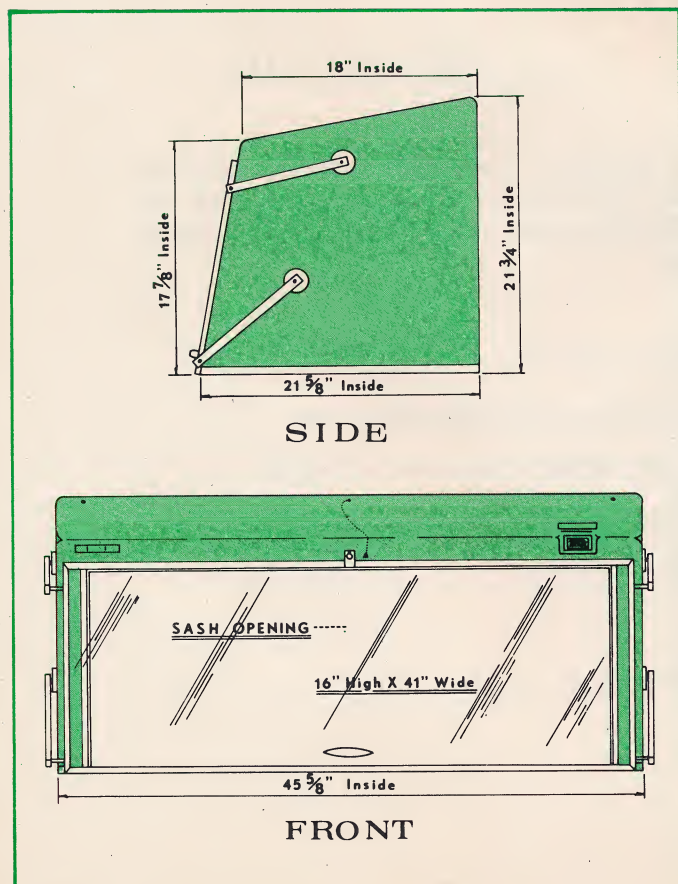
The unique, new LABCONCO fiberglass hood provides an air circulation-free area for culture planting and tissue staining. Built-in Ultraviolet light eliminates sources of contamination, keeps interior of hood germ-free for sterile techniques.

The superstructure of the LABCONCO Tissue Culture Hood is molded entirely of fiberglass. There is no paint to peel or crack, no transite to sag, no metal to corrode.

## THE LABCONCO TISSUE CULTURE HOOD HAS MANY USES IN STERILE TECHNIQUES

It can be used in tissue staining, culture planting, tissue propagation and in harvesting of virus or serum. It is large enough for media preparation and small animal inoculation.

### *dimensional data*



### QUICK AND EASY TO STERILIZE

The hard, smooth, nonporous fiberglass surface allows easy cleaning. Generously curved, seamless corners can be disinfected and wiped clean in a few minutes.



### FIRE AND CHEMICAL RESISTANT

The LABCONCO Tissue Culture Hood is polyester reinforced with glass fibers for exceptional strength and durability. It is fire retardant and chemical resistant.



### GERM FREE

A 36-inch, germicidal-type Ultraviolet light sterilizes the hood when it is not in use. This Mercury lamp, 2537 Angstroms at its predominant wave length, keeps hood contamination free.



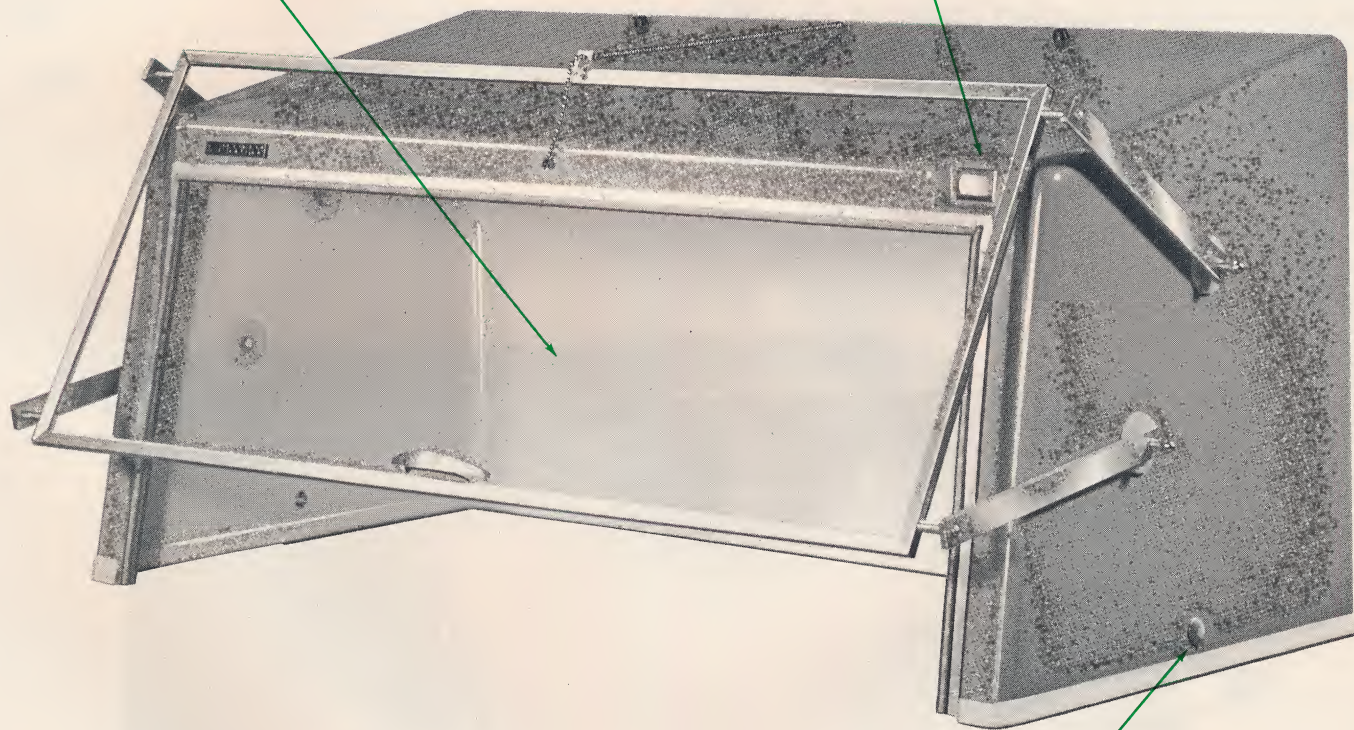
# TISSUE CULTURE HOOD / *general features*

## **1/4-INCH PLEXIGLASS SASH**

The lightweight sash is easy to open and close—adjustable to any shielding or operating height by a chain latch. The sash opening and bottom edge of hood are permanently sealed with a long-lasting vinyl gasket—no sharp edges to scratch or cut.

## **SAFETY SWITCH**

A three-position switch reduces the possibility of UV burns to the operator. Lights are safety wired so that if fluorescent light is on, the UV light is off, and vice versa. The switch also has an off position.



## **MOUNT ON ANY TABLE**

The hood may be mounted on any table or bench, over sinks, service fixtures or other equipment permanently mounted on the table top. Weighing only 50 pounds, the hood is easily moved from place to place or stored when not in use.

## **LARGE WORKING AREA**

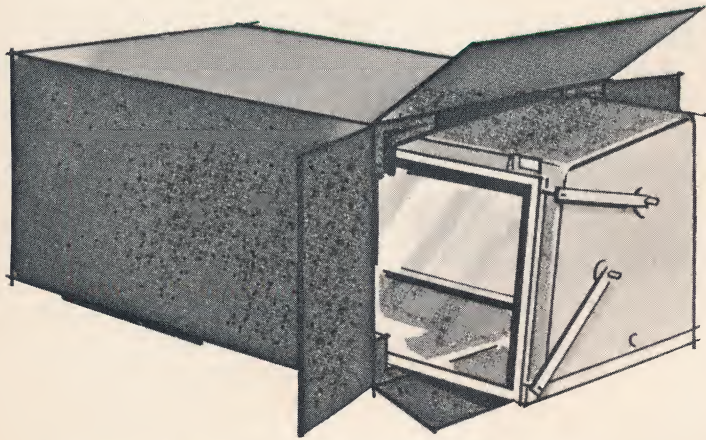
The base area measures 46 inches wide by 22 inches deep, allowing ample working space. The height of the hood is 22 inches. A fluorescent light illuminates the interior of the hood.

## **POP-OUT PLUGS**

Two convenient pop-out plugs—one on each side of unit—can be removed to allow utility lines to be brought into hood without opening sash. A 115-volt, polarized and grounded, 3-wire AC electrical outlet is located inside unit near upper left rear corner.



# TISSUE CULTURE HOOD / *specifications and prices*

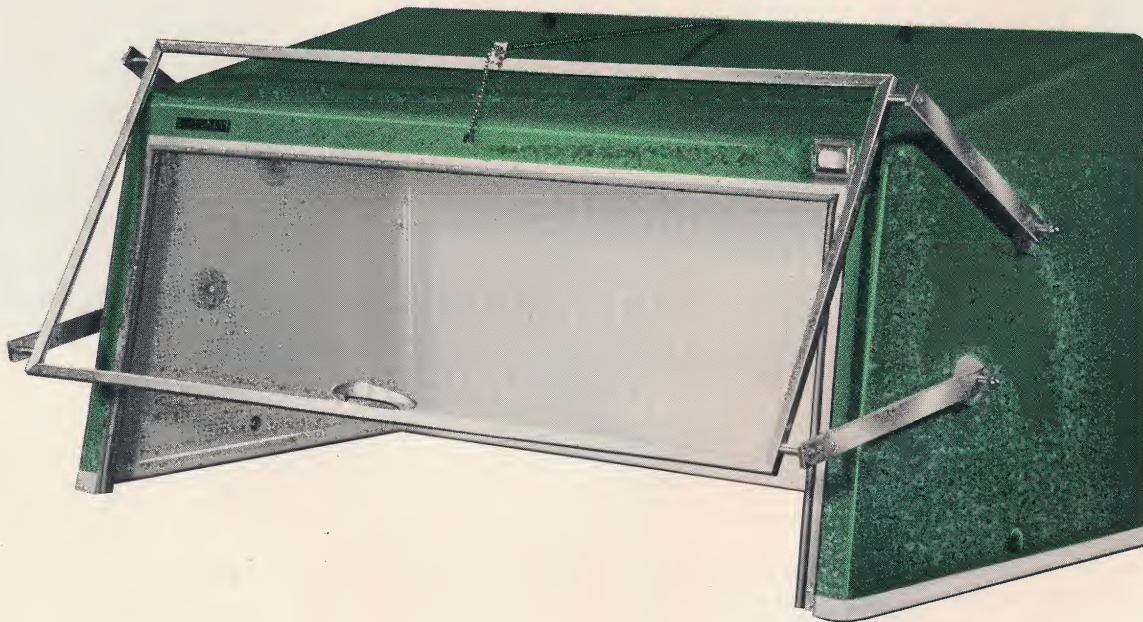


## SHIPPED COMPLETE

The unit is shipped completely assembled and ready to use upon arrival. Features included are the sash; UV light fixture and bulb; fluorescent light fixture and bulb; three-way switch; six-foot, three-wire groundable cord and plug. Unit operates on 115-volt AC.

## GERMICIDAL LAMP SPECIFICATIONS

Nominal watts	30
Nominal length	36"
Lamp amps	0.360
Approx. hours life	7500
Watts/sq. ft. at 1 ft.	0.5
Watts/sq. ft. at 8 in.	0.77
Watts/sq. ft. at 2 in.	3.0
Angstroms	2537

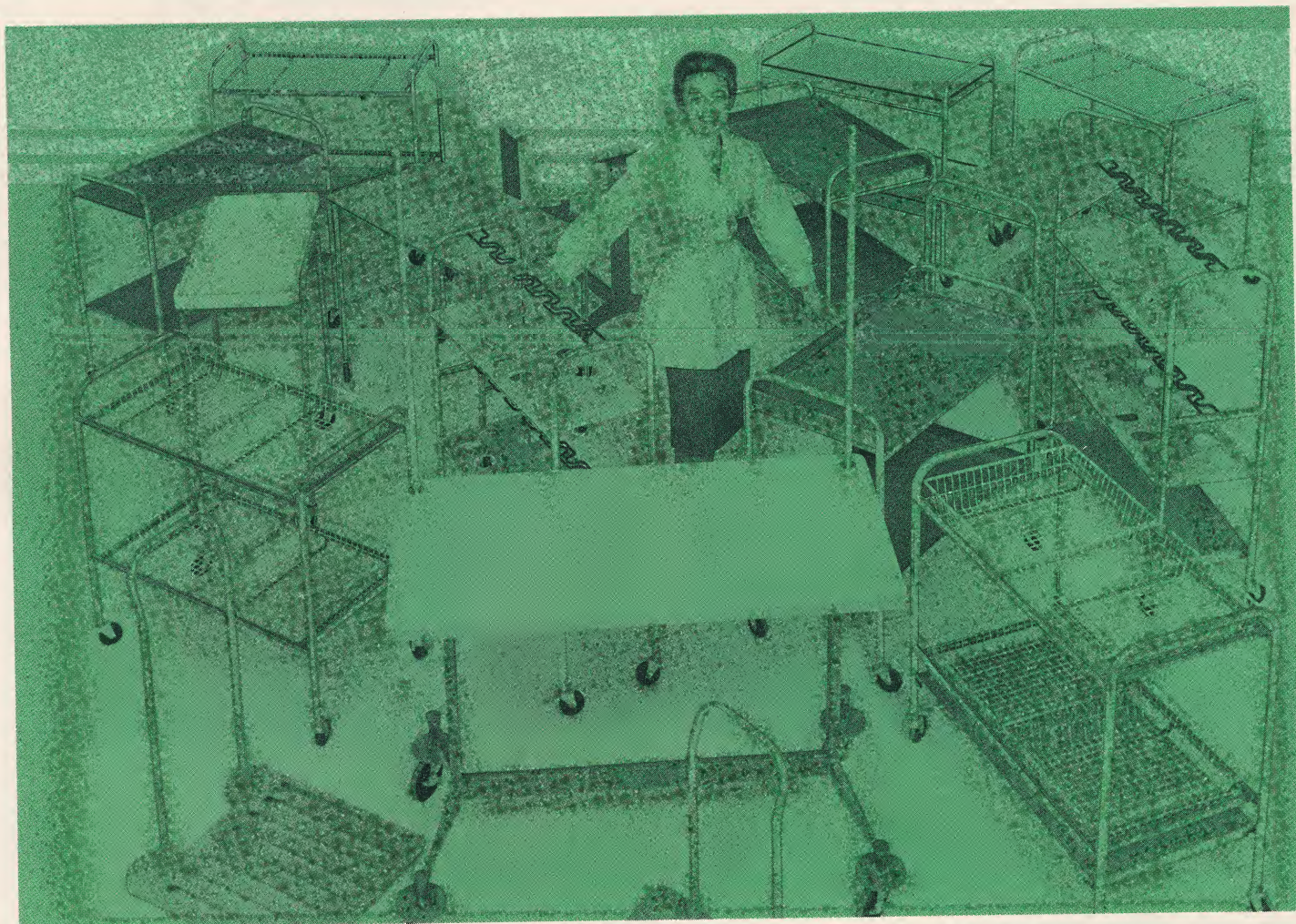


11000—**TISSUE CULTURE HOOD** complete with 115 volt AC 36" long 2537 Angstrom germicidal lamp and a 115 volt AC fluorescent lamp, both lights to operate off of same three-way safety switch. Unit to be one-piece molded of polylaminated, bonded double-wall, construction. To include lights, switch, 7 ft. 3-wire groundable cord and plug. Hood to be equipped with

a multiple position adjustable plexiglass sash. Unit to have a knock-out plug located on each end to allow introduction of a utility line and a 115 volt, polarized and grounded, 3-wire AC electrical outlet located inside unit near upper left rear corner. Unit to be completely assembled. GREEN ..... \$280.00  
11001—Same as above except GRAY ..... 280.00

Shipping Weight 71 Lbs.





## Now — corrosion-proof carts

After years of experimenting and testing, we feel that we can now offer you a cart that will still look new, years from now.

We tried stainless steel, nickel plate, chrome plate and many other metals and coatings. All had one common problem, they couldn't stand the ordinary day-to-day work load and the natural corrosive atmosphere of most laboratories. These materials were satisfactory for restaurants, but not a working laboratory.

Laboratories needed a tough, chemical resistant coating that could take a good knocking around and still look presentable after years of keeping up with

a heavy work load.

A good plastic coating was the obvious answer, but there was no practical way to coat a one-piece cart until electrostatic coating of plastic was perfected.

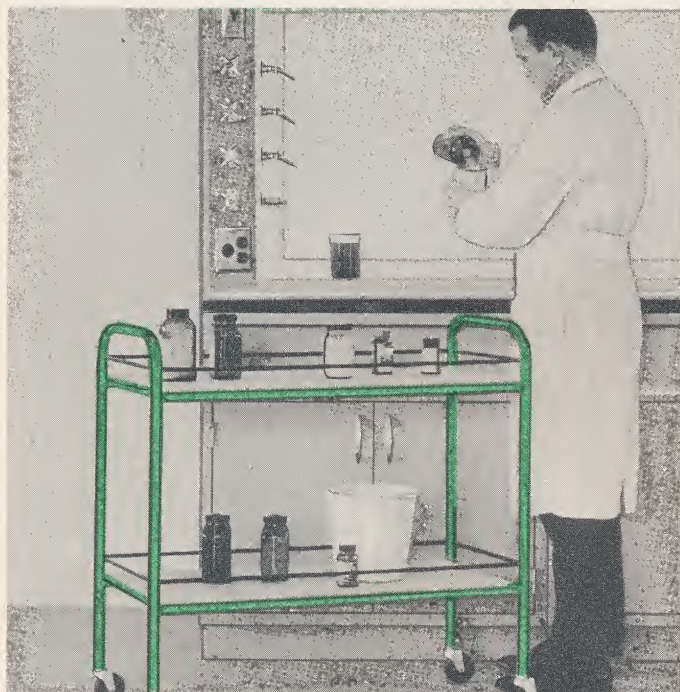
All LABCONCO carts are now electrostatically coated with plastic. **NO METAL, NO PROBLEMS!** This silent, corrosion-proof, tough, scratch-proof coating also has an extra benefit of not scratching or marring doorways, walls and cabinets that are inadvertently bumped.

This new light green plastic coating is great! We hope you agree.

- 17 MODELS — *a cart for every purpose*
- RUGGED CONSTRUCTION — *heavy gauge steel with all welded joints*
- CORROSION RESISTANT — *long life in any laboratory*
- PROMPT DELIVERY — *most models available from the stock of your local laboratory supply dealer*

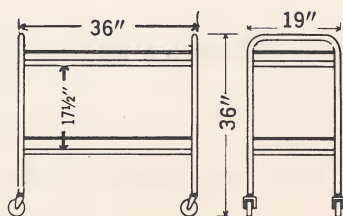


## CHEMICAL CART



Ideal for picking up and distributing samples, packages, glassware, equipment and instruments. Rolls freely in any direction on 3" hard rubber, ball bearing casters. Spacious shelves are of compressed and treated asbestos. They withstand acids, caustic, staining and are heat resistant. This dense, well braced material also withstands considerable weight and shock without cracking. The light green, plastic coated all welded frame is 1" steel tubing. There are no screws, rivets or bolts to work loose.

Catalog Number	Description	Ship. Wt.	Price
80200	Chemical Cart, as shown	54 lbs.	\$59.50

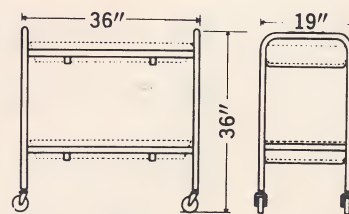
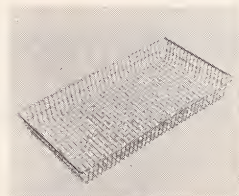


## GLASSWARE CART



This cart cuts hours from the task of washing and drying glassware. It's perfect for collecting and distributing sizeable loads of all types of glassware and small equipment. Available with or without removable drip pan. The removable wire baskets (32" x 18" x 4") are light but rigid. A light green plastic coating makes them resistant to corrosion, easy on glassware. The welded one-piece frame is one inch light green plastic coated steel tube. Extra baskets are helpful in glassware collecting. Spot them conveniently and use one cart for several laboratories. Chrome plated baskets for autoclaving are available at no extra cost (must be specified — plastic coating standard).

Catalog Number	Description	Ship. Wt.	Price
80325	Glassware Cart	43 lbs.	\$65.00
80350	Glassware Cart with removable, plated, drip pan; as shown	49 lbs.	80.00
80401	Extra Basket, 32" x 18" x 4", Plastic Covered	5 lbs.	9.00
80404	Basket 32" x 18" x 4", Chrome Plated	5 lbs.	9.00



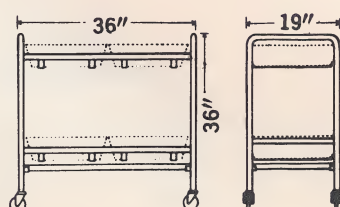
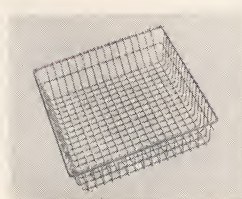


## GLASSWARE CART



Similar to model No. 80325, except that this cart has four smaller baskets instead of two larger ones. Baskets measure 16" x 18" x 4". A light green plastic coating makes them resistant to corrosion, easy on your glassware. They are convenient to handle; fit most drying cabinets and shelves. Many users order extra baskets. The welded frame is identical to that of No. 80325. Baskets are interchangeable. Extra baskets are helpful in glassware collecting. Spot them conveniently and use one cart for several laboratories. Chrome plated baskets for autoclaving are available at no extra cost (must be specified—plastic coating is standard).

Catalog Number	Description	Ship. Wt.	Price
80450	Glassware Cart with drip pan, as shown	52 lbs.	\$95.00
80425	Glassware Cart without drip pan	46 lbs.	85.00
80402	Extra Baskets, 16" x 18" x 4", Plastic Covered	2 lbs.	7.00
80405	Basket, 16" x 18" x 4", Chrome Plated	2 lbs.	7.00

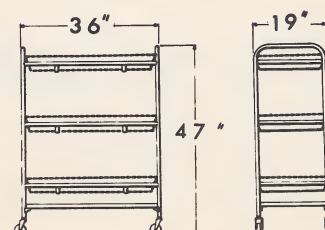
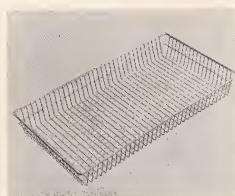


## GLASSWARE CART



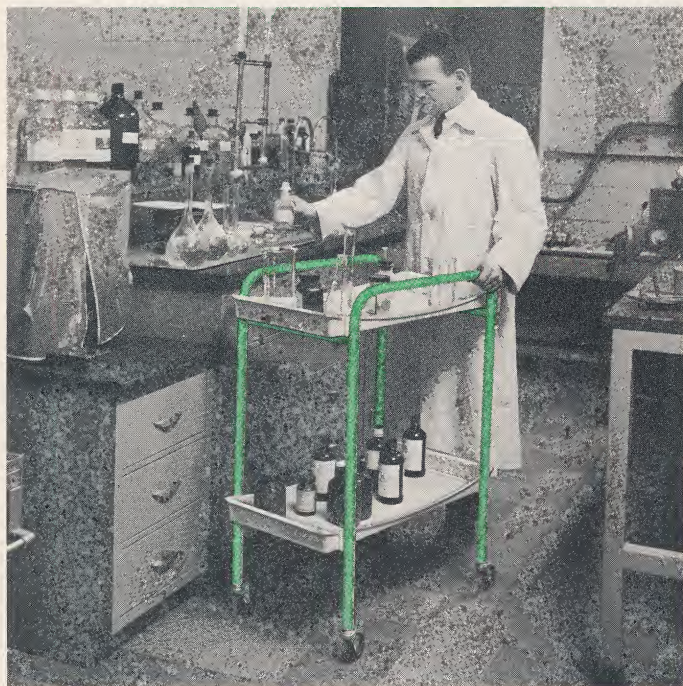
This cart is particularly useful for laboratories that have central glassware washing facilities. The three large baskets located on three layers allows maximum use of floor space and manpower. The lift-out polyvinyl coated wire baskets are easy on glassware and are corrosion resistant. Each basket is a large 32" x 18" x 4". Maximum utilization may be obtained by spotting extra baskets around the laboratories. Chrome-plated baskets, for autoclaving, are available at no extra cost. (Must be specified—plastic coating is standard.) The cart includes a rubber mounted removable drip pan to prevent slippery floors caused by drippage.

Catalog Number	Description	Ship. Wt.	Price
80400	Glassware Cart, with three decks, three baskets and removable drip pan, as shown	72 lbs.	\$112.00
80401	Extra Basket, 32" x 18" x 4", Plastic Covered	5 lbs.	9.00
80404	Basket, 32" x 18" x 4", Chrome Plated	5 lbs.	9.00





## FIBERGLASS LAB CART

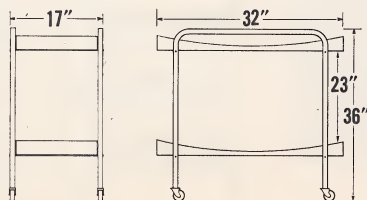


Here is an inexpensive cart designed to carry comparatively small, lightweight items and to operate in narrow aisles or restricted space. This cart is *completely* corrosion proof. Both trays are molded of heavy, rigid fiberglass which resists stain, heat and corrosion. The sides are reinforced by embedded wire. The frame is 1" steel tube coated with light green plastic. This resistant material cannot be chipped or scratched and provides a soft surface to protect the paint on benches, desks, and doorways.

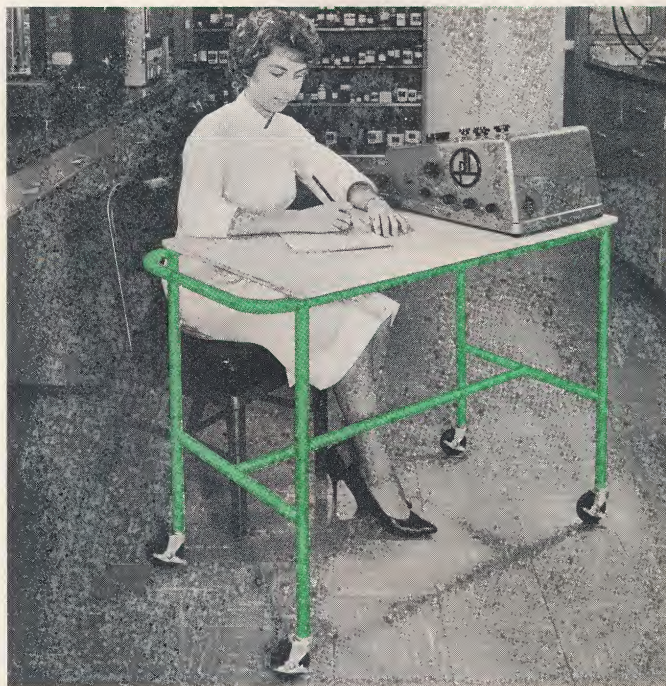
This cart is shipped partially disassembled and can be put together with a screwdriver in a few minutes. It is unusually rigid because of the special interlocking design of the trays and tubing.

The trays are buff in color; the frame is light green. Dimensions: 30" x 17" x 36". Ball bearing rubber tired casters are 3" in diameter.

Catalog Number	Description	Ship. Wt.	Price
80625	Fiberglass Lab Cart, as shown	25 lbs.	\$45.00

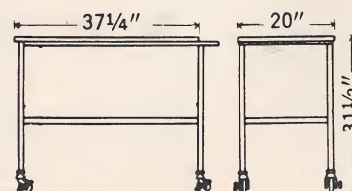


## PORTABLE INSTRUMENT DESK



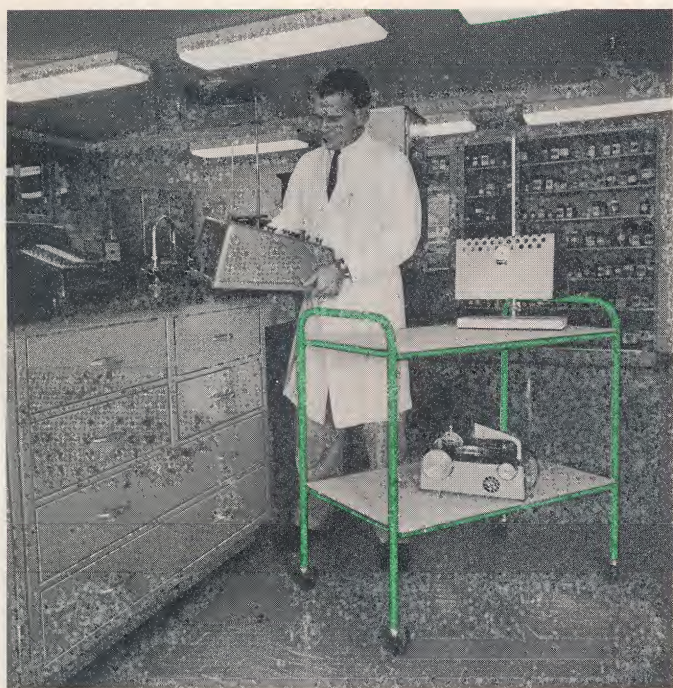
This cart serves as a desk, instrument table, extra bench, or a cart for transportation of medium- to heavy-weight equipment. Three-inch, toe-locking casters make it stationary when needed. Sturdy welded construction makes it ideal for carrying bulky instruments and apparatus. It will not vibrate or sway. The center bar permits comfortable seating from either side. Built to standard desk height. Top is ½" compressed, polished asbestos. The welded, one-piece frame is 1" light green plastic coated steel tube.

Catalog Number	Description	Ship. Wt.	Price
80525	Portable Instrument Desk, as shown	53 lbs.	\$59.50



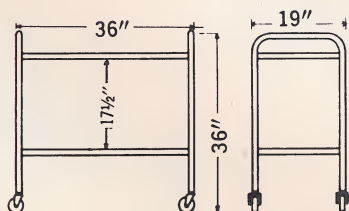


## PORTABLE TABLE

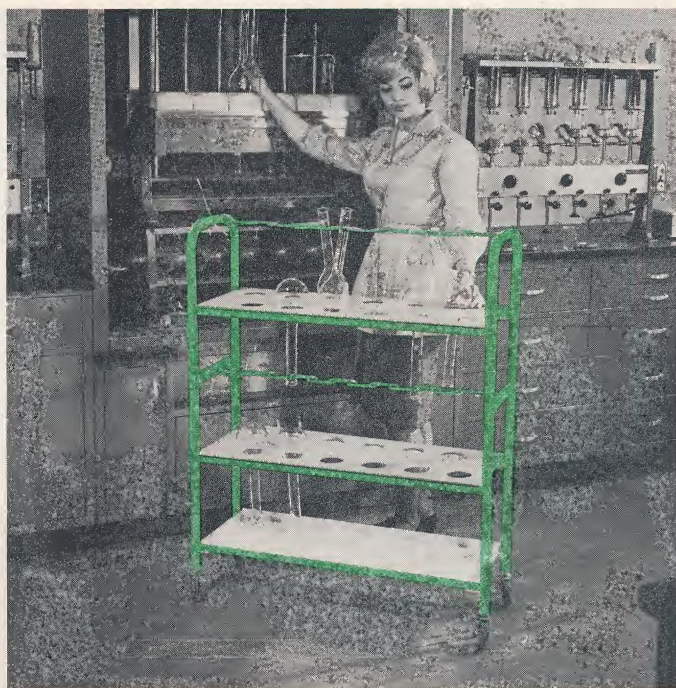


Here is a cart that can double as additional work space. Also excellent for moving heavy instruments. There are no guard rails to prevent easy transfer from bench top to cart. Frame is of rugged one-inch plastic coated steel tubing with welded construction. Three types of shelf material are available— asbestos, plated steel, or stainless steel.

Catalog Number	Description	Ship. Wt.	Price
80250	Portable Table, as shown. Shelves of polished, compressed asbestos	48 lbs.	\$53.50
80275	Portable Table. Shelves of plated 18 gauge steel	46 lbs.	60.00
80300	Portable Table. Shelves of 20 gauge stainless steel	45 lbs.	79.50



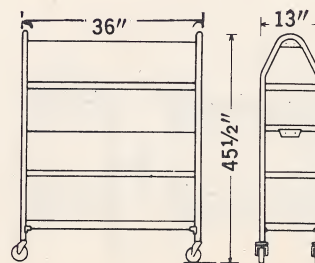
## FLASK CARRIER CART



A favorite with Kjeldahl users. This cart carries 24 Kjeldahl flasks, 500 or 800 milliliter size. Flasks may be carried upright or neck down for drying. Polished, compressed asbestos shelves have beveled holes to support flasks. Leaning flasks are firmly cradled by a special plastic covered steel rod. Fast trips over rough floors won't jar flasks out.

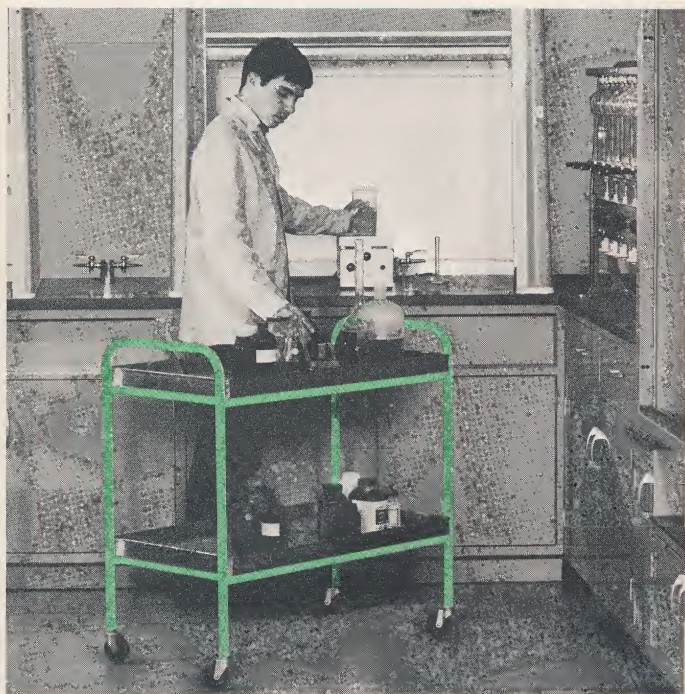
The frame is one-inch, 18 gauge steel tube. It is welded and coated with a light green plastic. Most laboratories specify the removable rubber mounted drip pan.

Catalog Number	Description	Ship. Wt.	Price
80175	Flask Carrier, as shown, with drip pan	49 lbs.	\$105.00
80150	Flask Carrier, without drip pan	42 lbs.	95.00





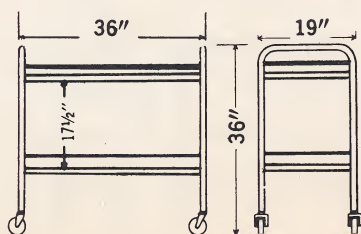
## PAN TYPE CART



This cart is equipped with two rigid, watertight pans, qualifying it for many uses in the lab. Pans are eighteen gauge plated steel or stainless steel and are welded to one-piece frame. Their two-inch sides have smooth folded edges.

Extra crossbars on frame at centers of pans prevent buckling and vibration noises. Pans on both models are lined with removable rubber mats. The plastic coated frame is welded of one-inch, 18-gauge steel tube.

Catalog Number	Description	Ship. Wt.	Price
80475	Pan Type Cart, as shown	58 lbs.	\$69.50
80500	Pan Type Cart, with 20-gauge satin finish stainless steel pans	58 lbs.	99.50



## SCOPE CART



This cart designed to carry and hold a large variety of scopes. The non-conductive formica top shelf can be adjusted to five different positions from horizontal to 20°.

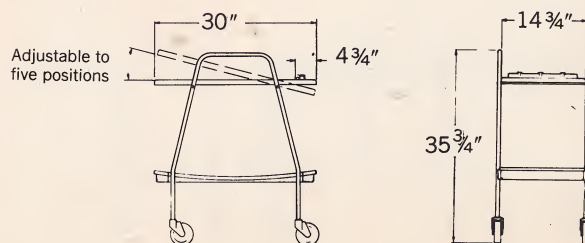
The top shelf is also equipped with a convenient three-outlet, 115-volt electrical connection strip and a six-foot cord and plug.

The frame is plastic coated one-inch steel tubing. This special corrosion-proof plastic coating provides protection for benches, desks and doorways.

This cart is shipped partially disassembled and can be put together with a screwdriver in a few minutes. The bottom shelf of this cart is a fiberglass tray molded of heavy rigid fiberglass which resists stain, heat and corrosion. It is unusually rigid because of the special interlocking design of the tray, shelf and tubing.

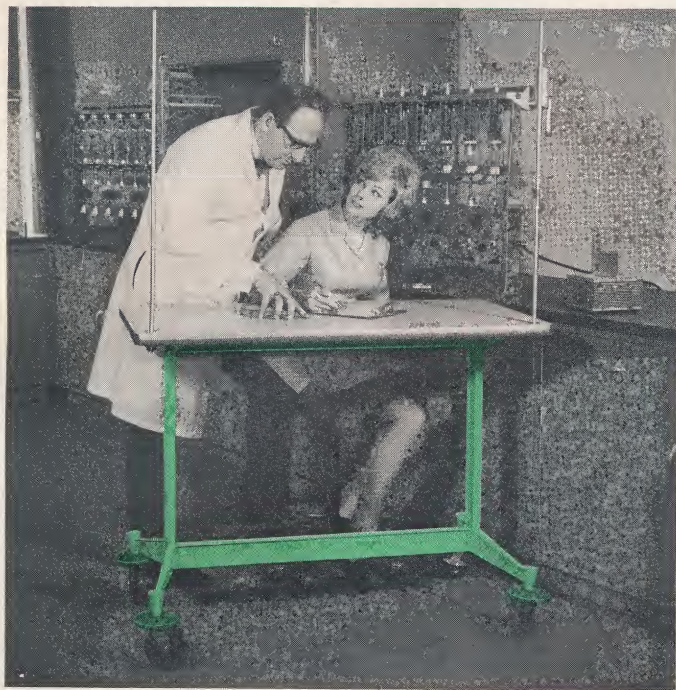
The scope shelf has a dark brown wood grain effect, the tray is a buff color, the frame is light green. The ball bearing rubber tired extra large casters are 5" in diameter.

Catalog Number	Description	Ship. Wt.	Price
80700	Scope Cart	25 lbs.	\$79.50





## MOBILE BENCH



This LABCONCO cart was specifically designed for three applications:

**1. THE LAB SHORT OF BENCH SPACE.**

Here is a full 8 square feet of standing or seated working space. A cart, yet sturdy and firm as any bench.

**2. FOR THE OCCASIONAL DETERMINATION.**

Keep the equipment set up on this bench; when not needed, store it elsewhere. Has flexible support rods for glassware set-ups.

**3. AS A TRANSPORT CART FOR HEAVY ITEMS.**

This mobile bench is large and strong so that heavy, expensive and delicate instruments can be moved safely.

The LABCONCO Mobile Bench is made of light green, coated cast aluminum. It weighs only 87 lbs., yet has more than adequate strength for the toughest hauling job. There are no bolts or screws to work loose.

The top is 1" wood core covered with resistant laminated plastic and supported by aluminum flanges. It is a non-conductive top which resists stain, fire, and scratching. The cart will move about without damage to benches and desks, because it has a large rubber bumper over each caster and a protective guard rim around the top.

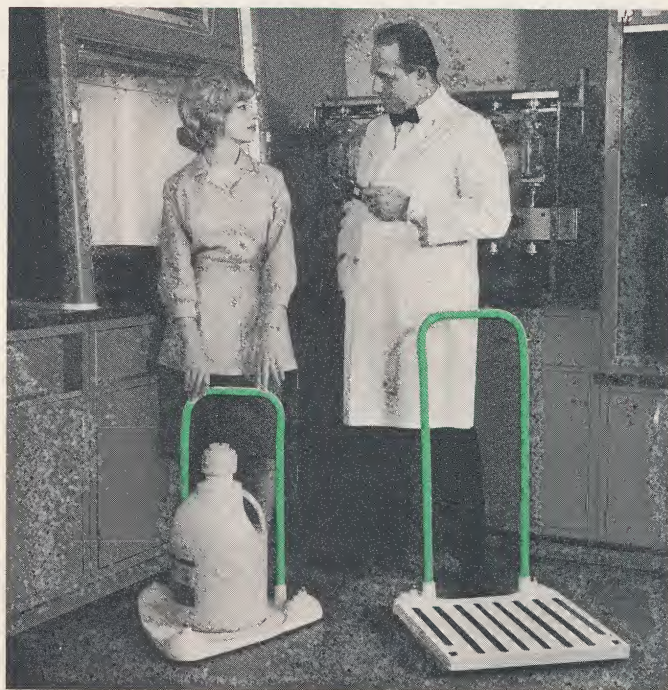
The attractive styling of this cart is accentuated by modern laboratory colors.

This cart is equipped with two flush mounted bases into which can be screwed ½" anodized aluminum support rods. The two upright rods are furnished and can be the basic support for any standard frame assembly.

The LABCONCO Mobile Bench has a capacity of 250 lbs. It is equipped with 5" ball bearing casters with soft rubber tires for shock absorption. Each caster has a toe-operated lock for semi-permanent location. Dimensions at right.

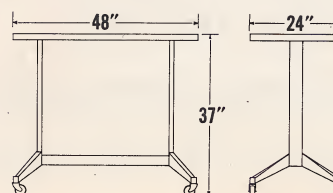
Catalog Number	Description	Ship. Wt.	Price
80600	Mobile bench, as shown	87 lbs.	\$175.00

## CARBOY CADDY



Here's an easier, safer way to handle bulky bottles of acid, distilled water and other solutions used in the laboratory. Available in two models—one for transporting bottles along, the other for moving bottles left inside a carboy. Carrying base rests only 1" from floor, eliminating the need for heavy lifting. The Carboy Caddy features 2" hard rubber ball bearing casters that make it exceptionally easy to move. Base is one-piece aluminum casting, heat-treated and ribbed underneath for extra strength. One inch steel tubing is plastic coated.

Catalog Number	Description	Ship. Wt.	Price
	Carboy Caddy for carrying bottles. Two depressed rings, one inside the other, provide a firm seat for bottles. Rings accommodate 5 and 13 gallon bottles, but other sizes can be carried as well.		
80001—Long handle			
80002—Short handle		19 lbs.	\$35.00
	Carboy Caddy for carrying bottles inside a carboy. Base is 20" x 20" for easy accommodation of 13-gallon carboy.		
80003—Long handle			
80004—Short handle		21 lbs.	35.00







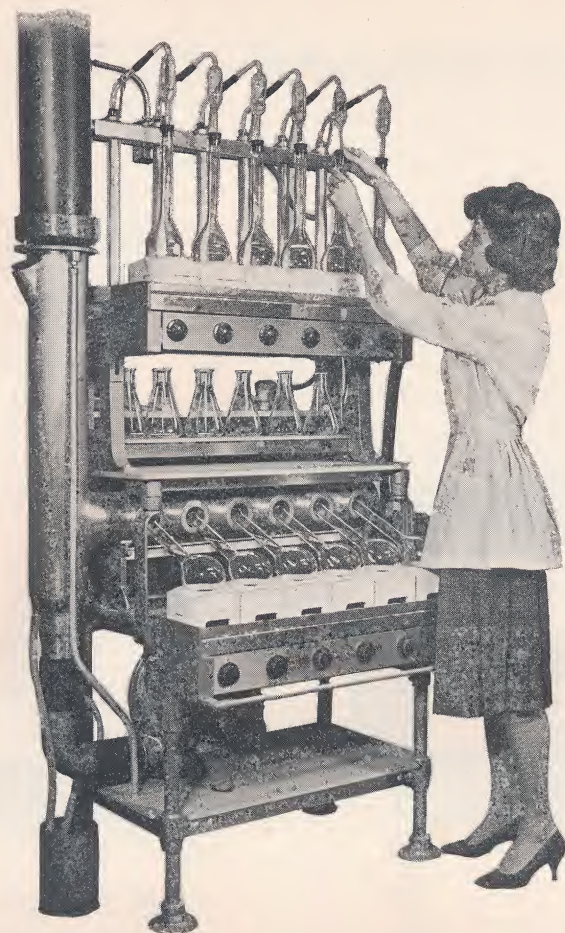
## The complete LABCONCO Kjeldahl Lab

LABCONCO manufactures the widest, most complete line of Kjeldahl apparatus and optional equipment for each model. LABCONCO also makes a complete line of Kjeldahl accessories, including acid and caustic dispensing units, titration units, Kjeldahl sinks, flasks and carts.

Look to LABCONCO for the complete, integrated Kjeldahl laboratory.

- SEPARATE DISTILLATION UNITS
- SEPARATE DIGESTION UNITS
- COMBINATION DISTILLATION AND DIGESTION UNITS
- HOODED COMBINATION UNITS
- COMPLETE LINE OF ACCESSORIES





## THE LABCONCO KJELDAHL

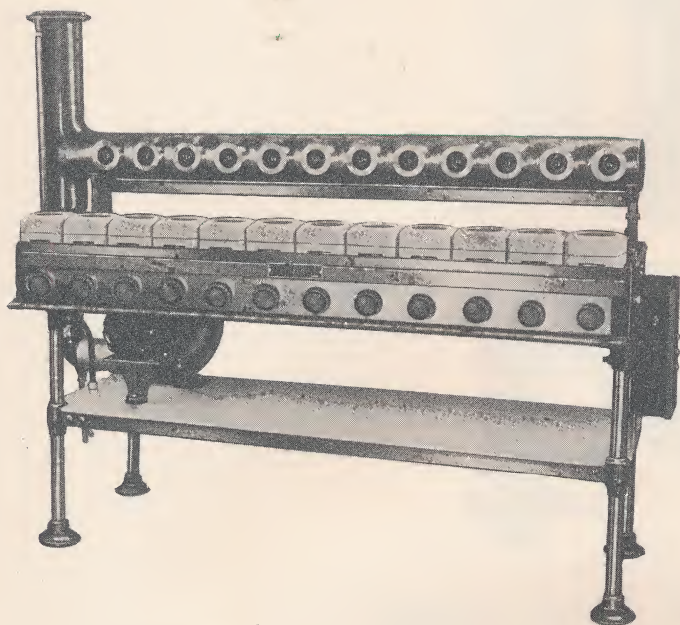
LABCONCO is the originator of modern Kjeldahl apparatus and is today the world's largest manufacturer of Kjeldahl equipment.

For the determination of protein content, LABCONCO Kjeldahl apparatus have no equal. They are in wide use throughout a multitude of industries, including chemical, feed manufacturing, food products and meat, brewing and distilling, as well as in government and university laboratories.

- MOST COMPLETE KJELDAHL LINE—*including digestion, distillation, combination, hooded units, optional features*
- COMPLETE LINE OF ACCESSORIES
- EXCLUSIVE FUME REMOVAL SYSTEM—*keeps apparatus fume-free for use in any laboratory*
- CIRCUIT BREAKER PANEL—*wired for your electric system to minimize determination losses in case of shorting*
- ADJUSTABLE HEATERS—*to accommodate various size flasks, connecting bulbs, etc.*
- RUGGED, DURABLE CONSTRUCTION—*including steel frame and aluminum castings...no blower vibrations*



## DIGESTION UNIT



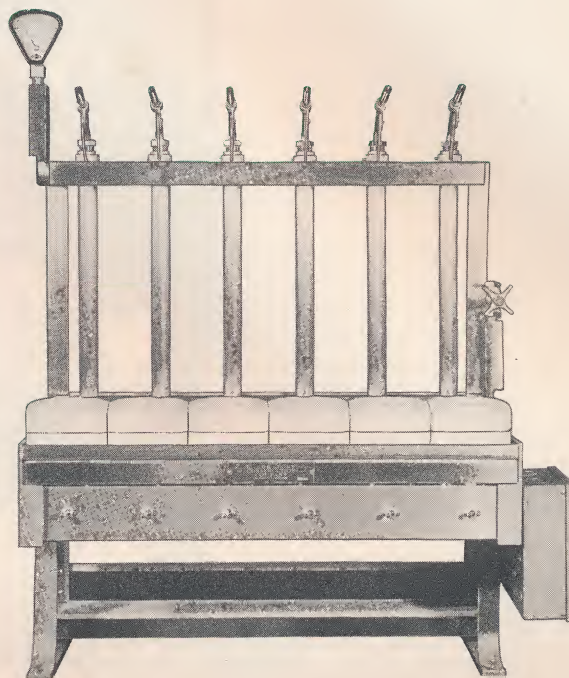
Safe, fume-free operation marks LABCONCO Kjeldahl apparatus as the best in the industry. Fumes are exhausted by means of a "built-in" blower and air ejector. After leaving the flasks, the fumes enter the disposal system through Pyrex glass suction ducts which prevent contamination or deterioration. Suction is equal among all the flasks in the battery. The upper necks of the flasks are cool enough to handle. Condensation on the exterior of the flask due to fumes circulating around the neck is eliminated.

Suction is furnished by a Venturi-type ejector which may be located at either end of the apparatus. The ejector and the blower which operates it are tailored to your flask capacity, producing an exact and controlled suction. Fumes are thus drawn from the flasks, and without passing through the blower, are exhausted to the atmosphere. Ejector will be located on the left (when facing unit) unless otherwise specified.

The lead assembly is one-piece, reinforced construction with all joints smoothly built up (no beaded connections). If given proper care, you may expect almost indefinite service.

Flasks of 500, 650, or 800 ml capacity may be used, as the digestion heater runway is extra wide and permits the locations of the heater to accommodate various flask neck lengths.

## DISTILLATION UNIT



The most important function in tubular condensing is a proper circulation system which allows a uniform rate of distillation. LABCONCO accomplishes this by utilizing the thermo-siphon principle with controlled back pressure.

Separate distillation units may be purchased as illustrated for mounting on any table or cabinet in either gas or electric models.

Durable construction is evidenced by the following: Condenser tubes are jacketed in 1/4" chrome-plated brass tubes and are held in place by two plated brass manifolds. Pyrex condenser tubes are furnished as standard on all units. Block tin may be specified at no extra charge.

Condenser tubes are held by a large brass nut seating on a rubber gasket, assuring a leak-proof top and bottom seal as well as a simple replacement. They are protected at the top by special adjustable supports.

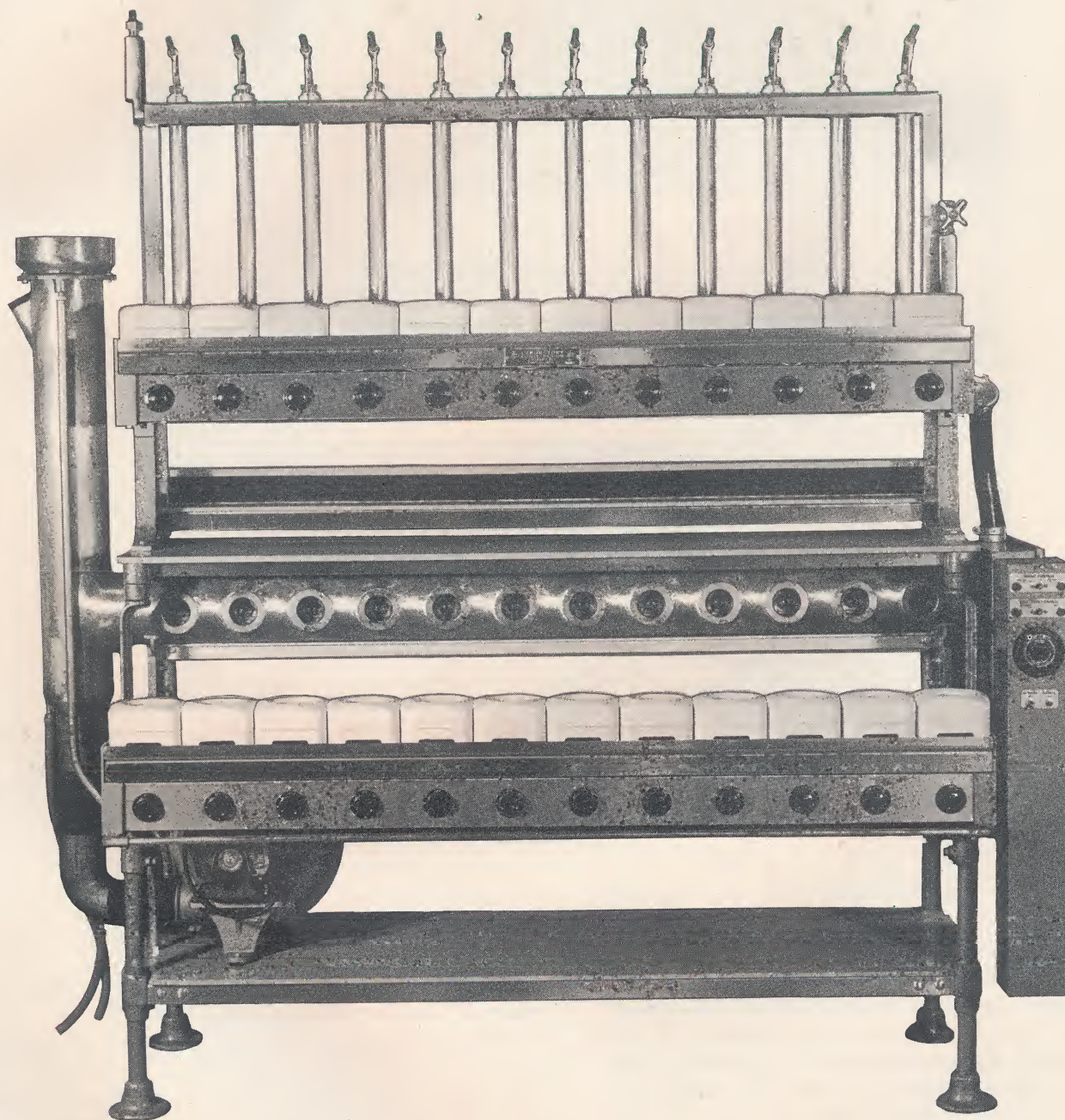
The distillation runway may be raised or lowered by two screws, allowing adjustment for various size flasks, connecting tubes, etc., without relocating the entire still assembly.

The asbestos shelf for receiving bottles has a sponge rubber backstop to prevent breakage when a bottle is removed from seal position to lower shelf. Water temperature is indicated by a dial or can be controlled automatically (see optional features on page 63).



## LABCONCO KJELDAHL / *operations and features*

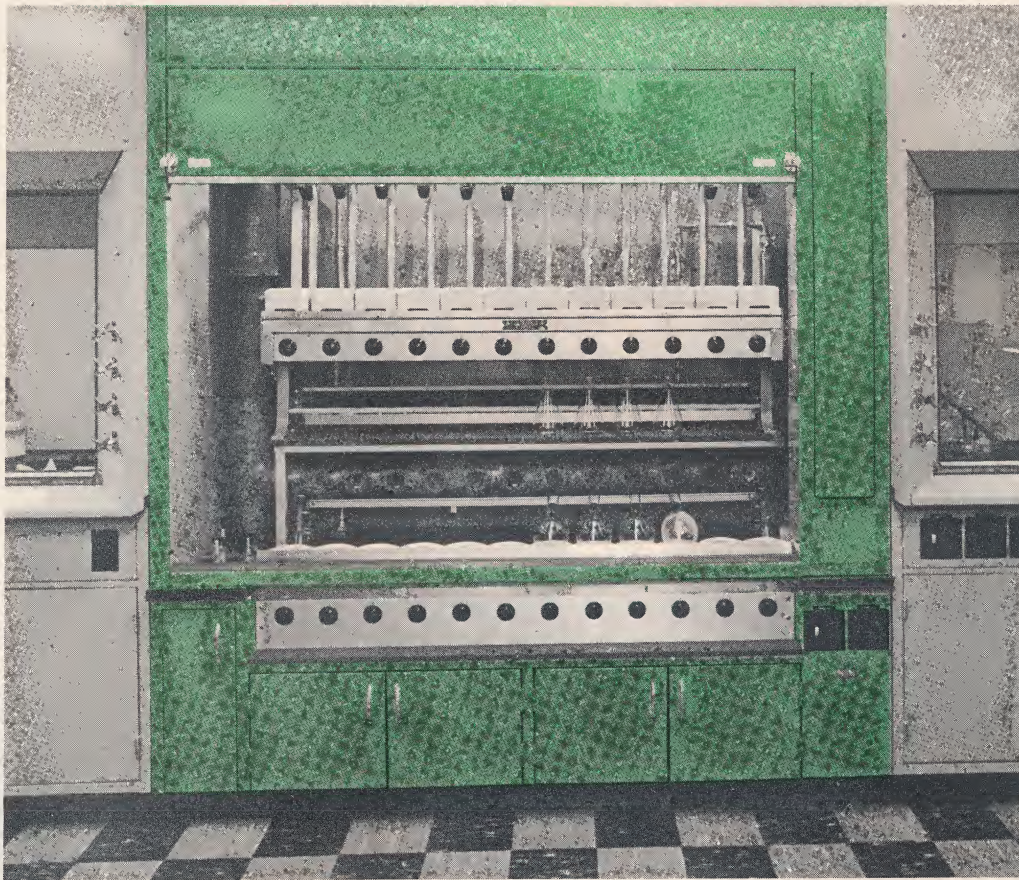
### COMBINATION DIGESTION AND DISTILLATION



Most popular of all the LABCONCO Kjeldahl units is the space-saving combination digestion and distillation model. This arrangement with the distillation over the digestion was originated by LABCONCO and has been so well accepted that it is now regarded as stand-

ard. Large laboratories with several Kjeldahl operators will frequently specify separate units of digestion and distillation. Others have work requirements or existing equipment which makes separate units advisable.





## Hooded Kjeldahl Units

Heat produced by Kjeldahl apparatus presents both a comfort and a cost problem in air conditioned laboratories. A 12-unit combination Kjeldahl, for instance, produces 45,000 to 50,000 btu's per hour. This is equal to approximately 4 tons of air conditioning capacity. This problem can be minimized with a hooded Kjeldahl which can reduce the heat load by as much as 75%.

Each building and laboratory presents its own peculiar problems. Many air conditioning systems are designed so the conditioned air will not be recirculated. In this case, fume hoods and heat removal hoods can become an integral part of the air conditioning system.

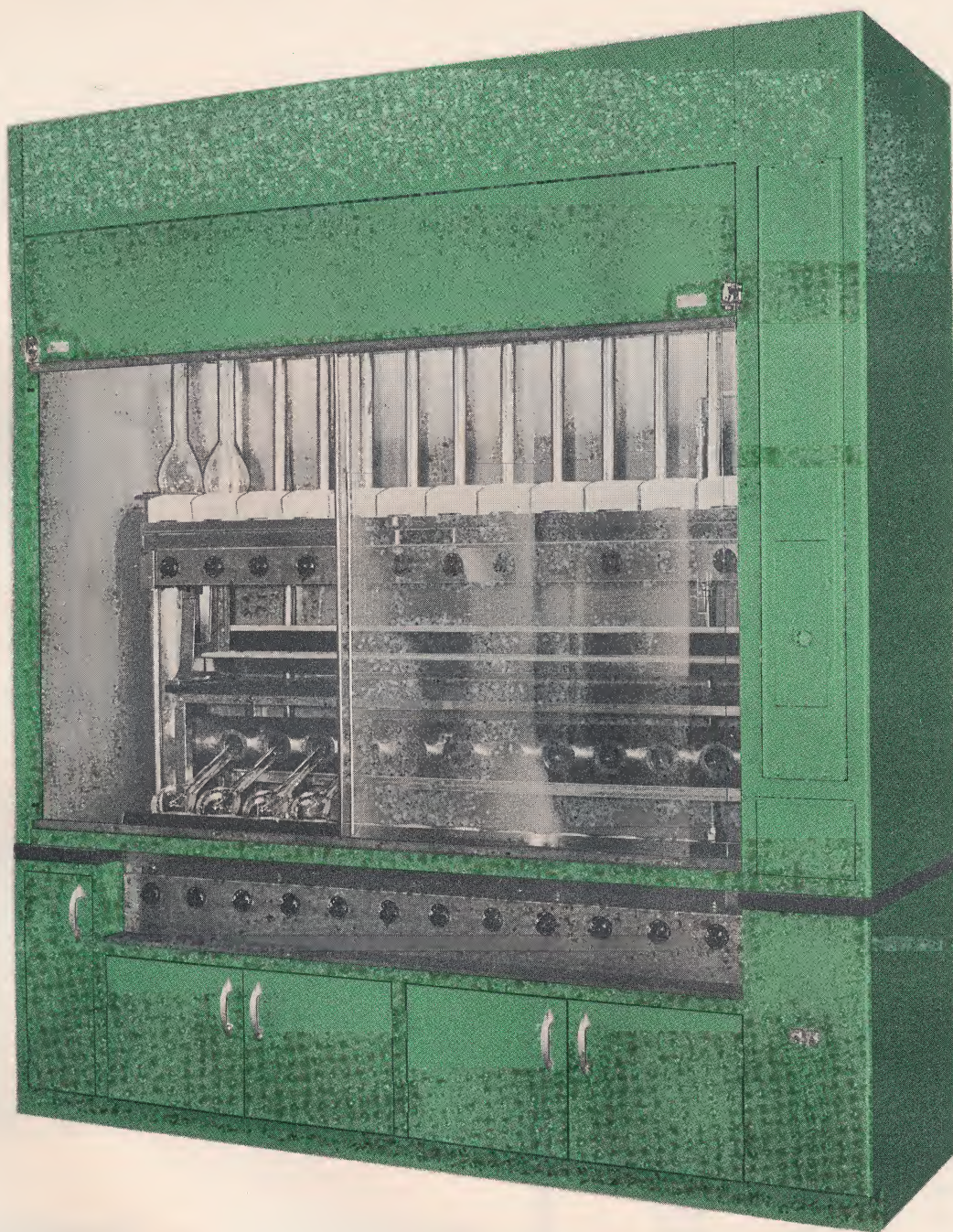
The air entering the room must be exhausted. The hoods are used for this purpose.

During operation, the sash may be completely closed. A narrow vent under the bottom sash slide allows air to flow through at all times. Since the opening in the face of the hood has been reduced, the face velocity across the opening can be maintained with a small cfm requirement (700 cfm for a 12-unit apparatus).

The hood itself is fabricated of formed metal, lined with highly resistant, coated asbestos. The finish is baked enamel and may be painted in one of two standard colors, light green or light gray, or to match or



## LABCONCO KJELDAHL / *operations and features*



complement your present furniture. A vapor tight incandescent fixture illuminates the interior.

The Kjeldahl apparatus in the hood is identical to standard combination models except that it is supported by the hood frame instead of its own legs and table. Acid fumes are exhausted by the unit's blower through an acid-proof stack or by a water ejector. The ejector must be located on the left side (as you face the unit). Heat is removed by conventional ducting. A blower for removing the heat must be provided if the unit is not to be vented into your present laboratory exhaust system. When it is desirable to induce air into the hood from outside the laboratory, a model is avail-

able with this feature. An additional blower is required to induce the air. (See page 30 for suitable blowers.)

In addition to the air requirements above, the blower used to exhaust the acid fumes requires approximately 230 cfm on 6-, 12- and 18-unit Kjeldahl.

Standard hooded units are available in 6-, 12- and 18-unit models.

For planning installations, contact your dealer or write LABCONCO. Drawings and technical data are available, along with planning and engineering assistance. LABCONCO engineers will be happy to review the operation of a hooded Kjeldahl in air conditioned spaces.



# LABCONCO KJELDAHL / *optional features*

## ELECTRIC HEAT

**Specifically designed for Kjeldahl work:**

The famous Goldfish heater has a curved core plate that follows round base of flask, giving faster, more equally distributed heat. Molded of heat resistant material, beveled top cradles flasks of several sizes, holding them in proper position. Runway housing and wiring, on which the heaters are mounted, are oversized to provide plenty of air space between heating elements, wiring and switches.

Included on all LABCONCO Kjeldahls is a circuit breaker panel at no extra cost. The units are custom wired in accordance with your electrical characteristics. A short or overload can affect no more than three determinations. If a short should



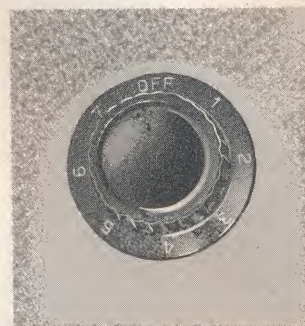
occur, a flip of the finger resets the automatic tripping device.

The standard control for electrically operated units is a single on or off switch (500 watts for digestion and 600 watts for distillation). Infinite heat control is available as an option.

## INFINITE HEAT CONTROL

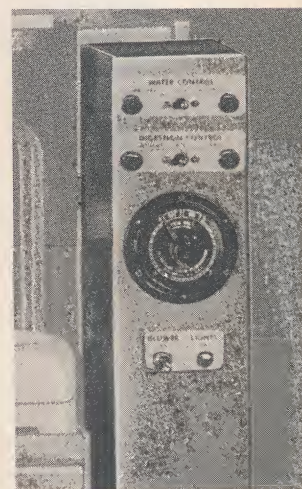
Because certain samples require heat variation or are subject to bumping and frothing, infinite heat control on electric units is an important consideration.

This range type heat control is designed to control a wide selection of electrical inputs. It is a bimetallic regulator using a shunt-type heater. It provides a nominal low input of 20% plus or minus 2½% and infinite inputs up to 100%.



## DIGESTION TIMER

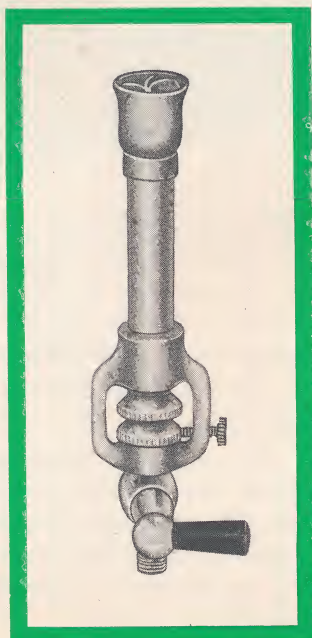
Just set this 3-hour timer for the desired digestion time and go about other tasks. At the proper moment, heat is cut, although the blower continues to operate to remove fumes. This automatic feature is popular for battery operation in busy laboratories. It saves considerable time and prevents loss of samples due to over-oxidation. May be applied on both gas and electric digestion units.



## GAS HEAT

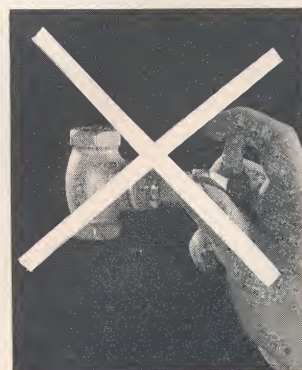
LABCONCO gas burners are fast, fully adjustable and have a set-lock for maintaining the flame desired.

Each burner operates beneath an individual gas burner asbestos housing which holds the flask in proper position and protects the flame from draft. The plumbing is complete with an indicating main valve for both digestion and distillation units. A gas pressure regulator is provided on the main gas connection. Burners will be for natural gas unless otherwise specified.



## THERMO-WATER CONTROL

With this feature you can forget the water entirely—it's regulated automatically. A built-in thermal control activates a magnetic valve at the water inlet, permitting passage of water through the still only when the water temperature rises above proper distilling level. It is fully adjustable and where water costs are a major factor, it can effect considerable savings.



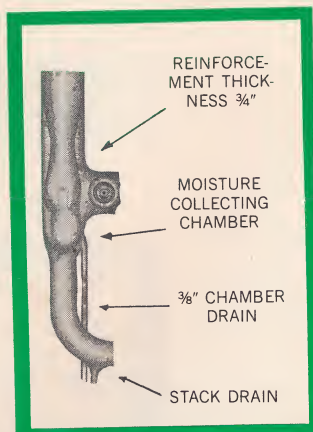
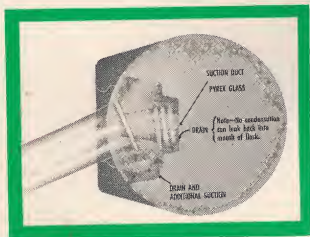


## LABCONCO KJELDAHL / *ejector systems*

LABCONCO Kjeldahl units feature two types of fume disposal system—air or water ejection. The air ejector system is standard, unless the water ejector is specifically requested.

Common to both systems is a unique flask connection to the lead fume disposal system. Pyrex glass suction ducts receive the fumes with equal suction regardless of the number of flasks in operation. The glass-to-glass contact makes contamination or deterioration impossible. Drip at mouth of flask is received by internal drain at the base of the socket.

A small upper hole takes care of occasional "puffing."



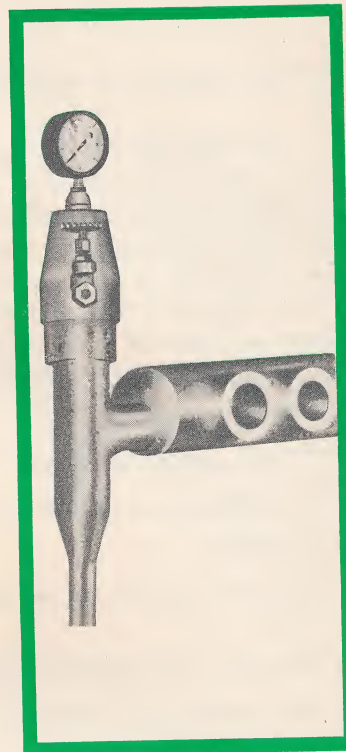
**THE AIR EJECTOR SYSTEM** is built into one end of the horizontal fume pipe. This Venturi-type ejector is tailored to the unit capacity and tested to synchronize with the blower delivery. Free of acid contact, the motor and blower are long-lived and maintain uniform and correct suction. Two lead drains take care of condensation or rain water.

**THE WATER EJECTOR SYSTEM** may be used very successfully for fume disposal on installations where it is difficult or unwise to blow acid fumes into the atmosphere. Fumes are drawn from the manifold by a lead and stainless steel aspirator. Fumes are then condensed and diluted by the water spray and carried down the drain. There is no extra cost for the water ejector system in place of the air ejector.

**The following installation instructions must be closely observed for successful operation:**

The aspirator set for normal operation with a 60 psi line pressure uses approximately 3-4 gallons per min. for a 6-12 unit, 5-6 gallons per min. for an 18-24 unit Kjeldahl.

The drain from this unit should be into acid proof pipe of the size specified in the engineering drawings which follow (page 69).



## LABCONCO KJELDAHL / *accessories*

### PLASTIC PIPE FUME DUCT



PLASTIC PIPE  
ACID-PROOF CEMENT  
ASBESTOS ROPE  
LEAD BELL ADAPTOR  
AND EJECTOR

The use of plastic pipe as a fume duct for the Kjeldahl unit has many advantages. It is resistant to sulphuric acid fumes and sunlight. The smooth interior wall finish resists build-up of precipitated solids, and assures maximum free flow throughout the life of the pipe.

The weight being one-fourth as much as lead, the installation of plastic pipe is relatively simple. There's no burning of lead-to-lead connections at the ejector, elbows or section joints. For joining two sections,

a coupling is required. Connections are simply made by solvent welding. The pipe can be easily cut without special tools. Both 45 degree and 90 degree elbows are available. A coupling is not required to connect the elbows.

LABCONCO plastic pipe is made of rigid, extruded thermoplastic. It is available in 6" nominal diameter (5.760 I.D.), which is sufficient for most installations. If the run of duct is over 60 feet in length, we recommend you consult our engi-

neering department for special pipe.

A special lead bell adaptor has been designed to simplify the connection between the ejector top and the plastic pipe. This adaptor is furnished on all Kjeldahl apparatus.

### SPECIAL NOTE:

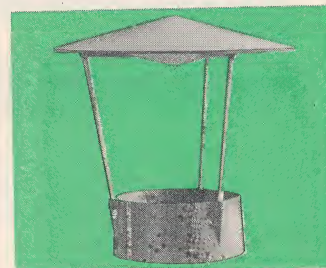
Consider carefully the type of exhaust system which will be best for your conditions at the initial planning stages. Waiting until the last minute or until the Kjeldahl unit actually arrives may preclude the use of certain exhausting systems.

Catalog Number	Description	Price
47086	Plastic Pipe, 10-ft. length	\$50.00
47087	90-degree Elbow Coupling	37.50
47088	45-degree Elbow Coupling	33.50
47089	Straight Coupling	15.00

Solvent welding cement is included with all pipe.

### FIBERGLASS WEATHER CAP

Many caps or hoods placed over the top of an outside stack or flue will cause an undesirable back pressure. To avoid this, we have designed a new fiberglass weather cap which eliminates back pressure and is completely resistant to corrosion and weather. Fits 6" plastic pipe (above).



Catalog Number	Description	Ship. Wt.	Price
70167	Fiberglass Weather Cap	5 lbs.	\$20.00

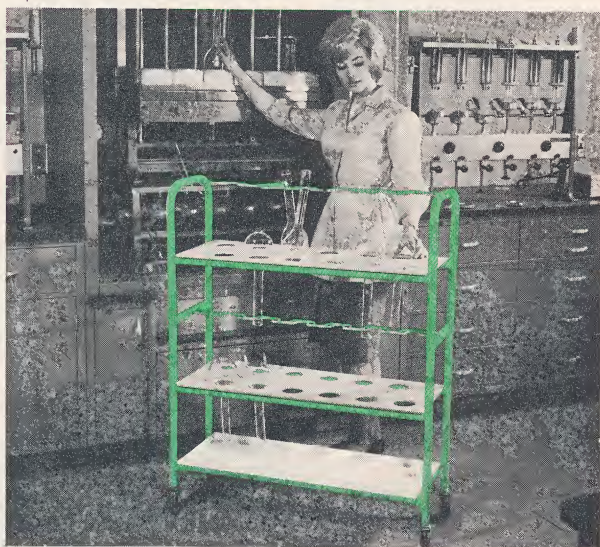


## Basic steps in Kjeldahl determination

The Kjeldahl determination involves other equipment used before, during and after the LABCONCO Kjeldahl apparatus. Laboratories anticipating regular Kjeldahl volume should consider where each step is to be accomplished and the time saving and safety features of LABCONCO Kjeldahl accessories. The basic steps in Kjeldahl determination, listed below, help to point up the various accessories needed:

1. Prepare sample
2. Weigh sample and place in flask on cart
3. Add digestion mixture and catalyst
4. Add acid
5. Place on digestion apparatus and digest for required time
6. Remove, cool and add cooling water
7. Add caustic and immediately place on distillation unit
8. Distill for required time
9. Remove receiving bottle and titrate

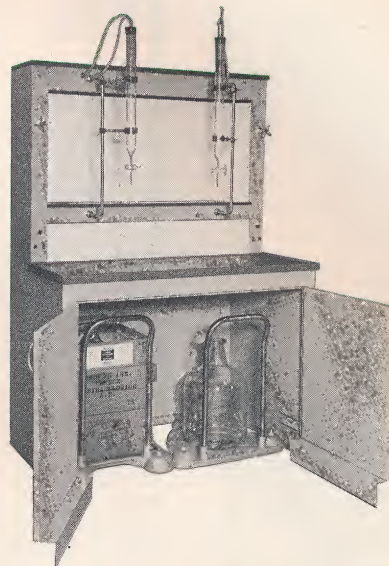
## FLASK CART



This unique cart was designed by LABCONCO for use exclusively with Kjeldahl apparatus. It carries 24 Kjeldahl flasks, 500 or 800 milliliter size. See section on carts page 54, for detailed information.

Catalog Number	Description	Ship. Wt.	Price
80175	Flask carrier with drip pan	49 lbs.	\$105.00
80150	Flask carrier without drip pan	42 lbs.	95.00

## ACID AND CAUSTIC DISPENSING UNITS



Safety alone makes the purchase of an acid and caustic unit worthwhile. It eliminates the hard work of handling heavy containers above floor level. It offers a foolproof method of elevating solutions.

The LABCONCO Dispensing Unit uses a vacuum from a powerful, built-in water aspirator to elevate solutions from the floor to the burettes. This eliminates the corrosion problem with vacuum pumps and the danger in the use of air pressure.

To fill the burette, simply press a button on the cabinet. Releasing the button stops filling promptly. The speed of filling is adjustable.

The base cabinet has no floor so it can accommodate two LABCONCO Carboy Caddies (not furnished—see page 56). These special caddies carry 5 gallon bottles. The cabinet will also hold most 13 gallon bottles or any other container of 32½" height or less.

Cabinets are welded steel with a resistant finish in a choice of four colors. The cabinet top is gray Colorlith, 1" thick with a ¼" retaining lip. Burette support rods are stainless steel and adjustable, front and back.

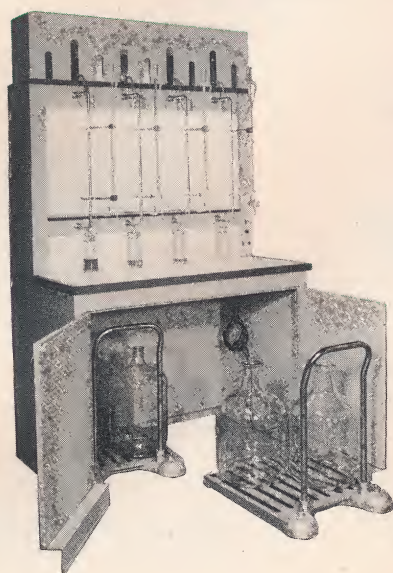
All models are complete with plumbing, wiring, and polyethylene tubing. This tubing is specifically sized for caustic on one side of the combination acid and caustic models unless we are otherwise instructed. Burettes and clamps are not furnished. All units require water supply and drain and 115-volt AC. Overall dimensions: 47" x 39" x 72" high.

Catalog Number	Description	Ship. Wt.	Price
45600	Acid and Caustic, 4 ft., w/cabinet—GREEN	600 lbs.	\$445.00
45601	Same as above—GRAY	600 lbs.	445.00



## LABCONCO KJELDAHL / accessories

### TITRATION UNIT



The LABCONCO Titration Unit elevates solutions from floor to overhead reservoirs. This is accomplished by a built-in aspirator vacuum system. This eliminates the danger and inconvenience of lifting bottles overhead. It also allows faster transfer of standard solution bottles through the laboratory.

The LABCONCO Titration Unit features four 2000 ml reservoir bottles with drain. These are located in brackets on the top shelf and under the hinged bottle cover. When these bottles are empty, the operator presses a button and fills the upper reservoirs. Filling ceases when the button is released.

The cabinet base is constructed of welded steel. The doors, with built-in toe space, open all the way to the floor. Thus solution bottles may be rolled into the cabinet. This designed to accommodate LABCONCO Carboy Caddies (not furnished—see page 56).

The soft white interior of the superstructure is illuminated by a fluorescent light. The working surface is a one-piece white Carrara glass inset into gray Colorlith. The glass picks up the reflected light from the superstructure background, making end point reading much easier. All burette rods are of stainless steel and are adjustable front and back.

The unit comes complete with four 2000 ml reservoir bottles, traps, vacuum system, overflow bottles, check valves, necessary tubing, light, and controls. It is only necessary to furnish water supply, drain, and 115-volt AC. Titrating burettes are not included. Over-all dimensions are 47" x 30" x 83¾". A minimum ceiling height of 89¾" is necessary to change the top reservoir bottles.

Catalog Number	Description	Ship. Wt.	Price
46600	Titration unit, cabinet model, with built-in vacuum system—GREEN	600 lbs.	\$610.00
46601	Same as above—GRAY		\$610.00

### KJELDAHL SINK



Kjeldahl determinations are particularly hard on laboratory sinks. LABCONCO offers the most durable sink for the work. It is made of one-piece porcelain, assuring maximum strength, thermal shock resistance and chemical inertness. The smooth interior with rounded corners is easy to keep clean. The entire sink is finished in an attractive blue-gray glaze color.

The faucet has a swinging gooseneck spout and hose connection. There is a flask washer. The flask opening is placed over a rubber protected water jet. Then the flask is pushed to the rear against a rubber cradle and the water jet completely sprays the flask. The six-foot hose is equipped with a grip valve and cut-off valve. This hose makes it easy to add cooling water to the flasks on the cart.

The steel supporting stand has leveling adjustments concealed by rubber base shoes. Dimensions: 27½" wide x 41¼" high x 21½" deep, including the stand and back splash.

Catalog Number	Description	Ship. Wt.	Price
45200	Sink, stand, chemical lead waste plug and tailpiece, single laboratory faucet with swinging gooseneck spout flask washer, six-foot hose and valve as shown—GREEN	200 lbs.	\$325.00
45201	Same as above—GRAY		\$325.00



## Checklist for ordering a Kjeldahl apparatus

This checklist has been prepared to help you consider all the many different choices that are available when ordering a Kjeldahl apparatus. May we suggest that you read this checklist and consider each alternative before ordering.

**1-MODEL:** Combination or distillation or digestion? In some cases only the digestion or the distillation unit is required, but normally, the combination digestion and distillation unit is necessary.

**2-SIZE:** 6, 12, 18, 24, (for larger units see #10 below). How many samples will be run during your peak load time? This will determine what size unit you will need.

**3-TYPE OF HEAT:** Gas or Electric? If you choose electric, then you must decide on the type of heat control: Single heat, or infinite control.

**4-FUME DISPOSAL SYSTEM:** Do you want air ejector or water ejector? Water may be used where it is not desirable to exhaust the fume to the atmosphere.

**5-HOODED UNIT:** Is your laboratory air conditioned? If so, it will probably pay you to consider a hooded Kjeldahl—available with or without induced air.

**6-THERMAL WATER CONTROL:** This device automatically controls the distillation cooling water, eliminating the need for attention by the operator. It has an added advantage where water costs are a factor.

**7-DIGESTION TIME:** This time-saving device frees the operator to do other things. Automatically shuts off the heat at the proper time but allows the blower to continue to run to exhaust fumes.

**8-ELECTRICAL SUPPLY:** This apparatus with its circuit breaker panel is custom wired to match your power supply. Please specify your electrical characteristics from the 10 standard codes listed on page 68. When specifying for bidding or new construction, the electrical characteristics may be decided upon at a later date at no additional charge.

**9-ACCESSORY ITEMS:** Other associate items which would normally be found with a Kjeldahl unit include: flask cart, acid and caustic dispensing unit, titration unit, and a Kjeldahl sink.

**10-UNUSUAL OR SPECIAL MODELS:** LABCONCO can build a Kjeldahl to fit your requirements. If you need a back-to-back model, double-decked digestion, separate digestion or distillation to 48 flask capacity, half gas and half electric, or any other combination, model or size, write LABCONCO for complete information.

## How to order

Here's how to determine the catalog numbers which designate the exact type of Kjeldahl unit you desire:

**CHOOSE ONE**

Combination Digestion & Distillation  
Distillation  
Digestion

**CHOOSE ONE**

Electric Heat  
Gas Heat

**CHOOSE ONE**

6 Unit  
12 Unit  
18 Unit  
24 Unit

**CHOOSE ONE**

Electrical Specification  
Codes listed on page 68

**OPTIONAL**

Standard Hooded Model  
Hooded Model with Induced Air

**OPTIONAL**

Infinite Heat Control

**OPTIONAL**

Thermal Water Control

**OPTIONAL**

Automatic Timing Device

**OPTIONAL**

Water Ejector

**SAMPLE:** Here's what your order might look like:

Catalog Number	Description
20714	18 Unit Kjeldahl, combination green hooded model
20830	With A.C. electrical characteristic, 115V., 60 cycle.
20822	With infinite heat control
20801	With thermal water control
20851	With automatic timing device



# LABCONCO KJELDAHL / prices

## COMBINATION DIGESTION AND DISTILLATION MODELS HOODED

### ELECTRIC

Catalog Number	Description	Ship. Wt.	Price
	6 unit (6 Distillation) (6 Digestion)	1200 lbs.	
20710	GREEN		\$2412.00
20711	GRAY		2412.00
20720	GREEN with Induced Air		2522.00
20721	GRAY with Induced Air		2522.00
	12 unit (12 Distillation) (12 Digestion)	1700 lbs.	
20712	GREEN		3349.00
20713	GRAY		3349.00
20722	GREEN with Induced Air		3459.00
20723	GRAY with Induced Air		3459.00
	18 unit (18 Distillation) (18 Digestion)	2200 lbs.	
20714	GREEN		4716.00
20715	GRAY		4716.00
20724	GREEN with Induced Air		4881.00
20725	GRAY with Induced Air		4881.00

## COMBINATION DIGESTION AND DISTILLATION MODELS NOT HOODED

### ELECTRIC

Catalog Number	Description	Ship. Wt.	Price
20700	6 unit (6 Distillation) (6 Digestion)	600 lbs.	\$1339.00
20701	12 unit (12 Distillation) (12 Digestion)	1100 lbs.	2150.00
20702	18 unit (18 Distillation) (18 Digestion)	1500 lbs.	3121.00
20703	24 unit (24 Distillation) (24 Digestion)	1900 lbs.	3929.00

### GAS

20705	6 unit (6 Distillation) (6 Digestion)	650 lbs.	1154.00
20706	12 unit (12 Distillation) (12 Digestion)	1150 lbs.	1864.00
20707	18 unit (18 Distillation) (18 Digestion)	1550 lbs.	2709.00
20708	24 unit (24 Distillation) (24 Digestion)	1950 lbs.	3406.00

## DISTILLATION MODELS

Catalog Number	Description	Ship. Wt.	Price
<b>ELECTRIC</b>			
20730	Distillation, 6 unit	200 lbs.	\$ 525.00
20731	Distillation, 12 unit	350 lbs.	834.00
20732	Distillation, 18 unit	500 lbs.	1192.00
20733	Distillation, 24 unit	650 lbs.	1485.00

### GAS

20735	Distillation, 6 unit	200 lbs.	453.00
20736	Distillation, 12 unit	350 lbs.	719.00
20737	Distillation, 18 unit	500 lbs.	1027.00
20738	Distillation, 24 unit	650 lbs.	1280.00

## DIGESTION MODELS

Catalog Number	Description	Ship. Wt.	Price
<b>ELECTRIC</b>			

20740	Digestion, 6 unit	450 lbs.	\$ 745.00
20741	Digestion, 12 unit	750 lbs.	1235.00
20742	Digestion, 18 unit	1050 lbs.	1807.00
20743	Digestion, 24 unit	1250 lbs.	2301.00

### GAS

20745	Digestion, 6 unit	400 lbs.	634.00
20746	Digestion, 12 unit	700 lbs.	1064.00
20747	Digestion, 18 unit	1000 lbs.	1557.00
20748	Digestion, 24 unit	1250 lbs.	1984.00

## SPECIAL MODELS

—almost complete flexibility...consult LABCONCO.

## OPTIONAL FEATURES

20800	Thermo Water Control 6 or 12 unit	\$ 90.00
20801	Thermo Water Control 18 or 24 unit	180.00
20850	Automatic Timing Device 6 or 12 unit- electric	125.00
20851	Automatic Timing Device 18 or 24 unit-electric	268.00
20860	Automatic Timing Device 6, 12, 18 or 24 unit gas	80.00
20811	Water Ejector, Any Model	NO EXTRA CHARGE
20822	Infinite Control — per heater	15.00

## A. C. ELECTRICAL CHARACTERISTICS

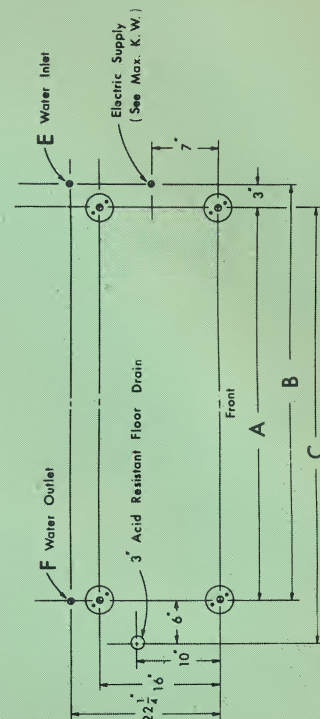
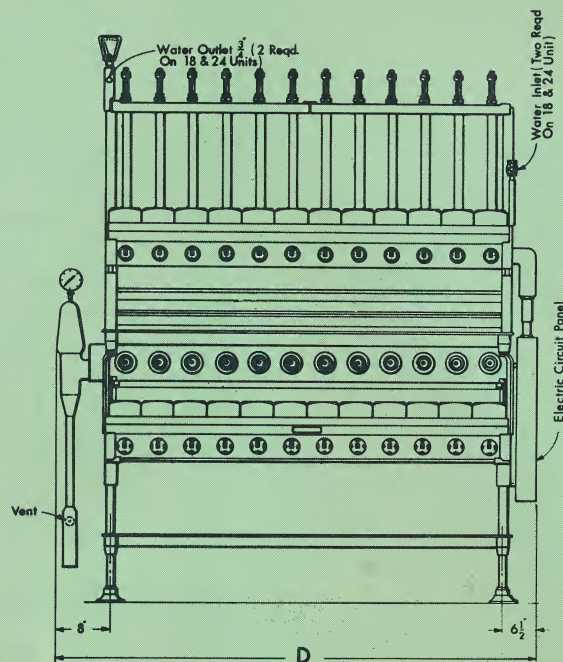
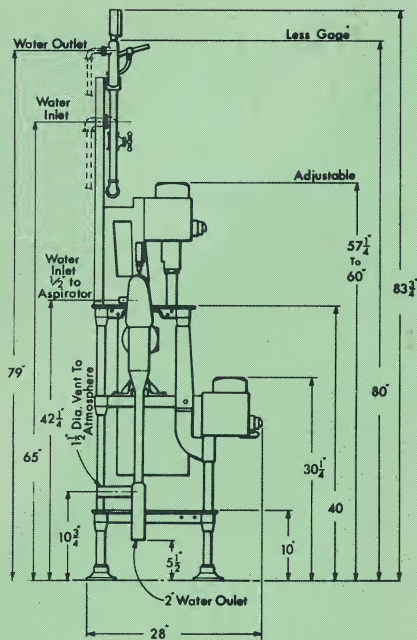
(Selection does not affect price.)

Catalog Number	Description
20830*	115 Volts, 60 Cycle, Single Phase, 2-Wire
20831*	115 Volts, 50 Cycle, Single Phase, 2-Wire
20832**	230 Volts, 60 Cycle, Single Phase, 2-Wire
20833**	230 Volts, 50 Cycle, Single Phase, 2-Wire
20834*	115/230 Volts, 60 Cycle, Single Phase, 3-Wire
20835*	115/230 Volts, 50 Cycle, Single Phase, 3-Wire
20836**	230 Volts, 60 Cycle, 3 Phase, 3-Wire
20837**	230 Volts, 50 Cycle, 3 Phase, 3-Wire
20838*	120/208 Volts, 60 Cycle, 3 Phase, 4-Wire
20839*	120/208 Volts, 50 Cycle, 3 Phase, 4-Wire

\*Heaters and air ejector motor will be 115 Volts, Single Phase

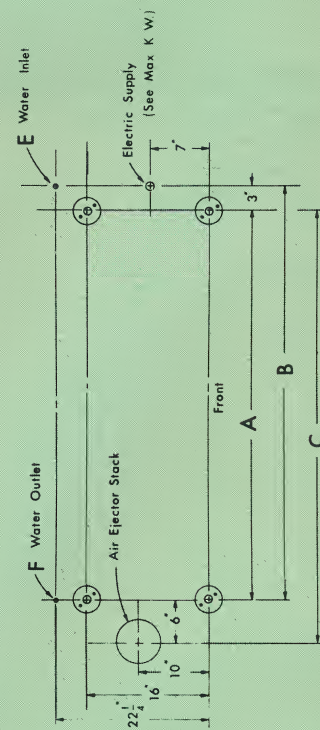
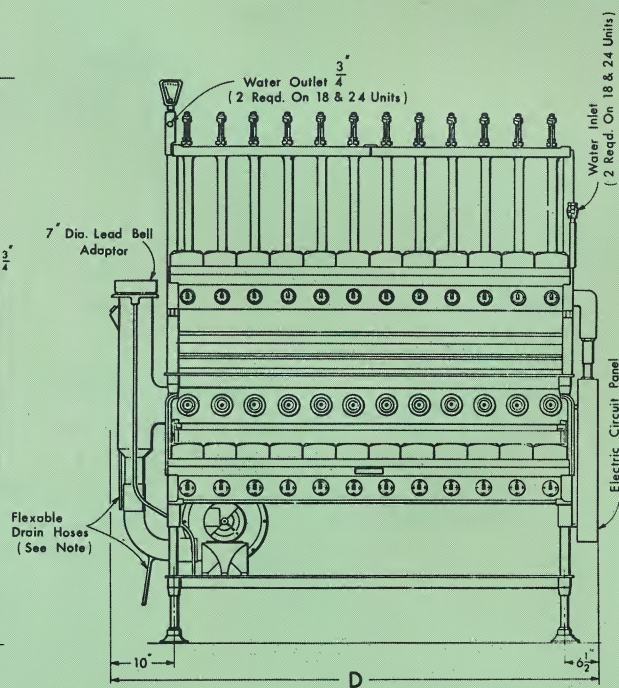
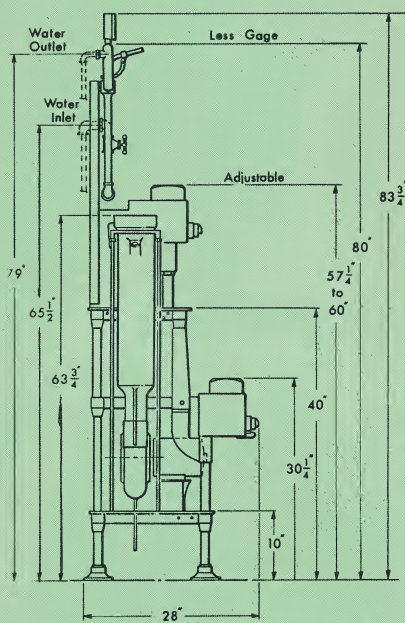
\*\*Heaters and air ejector motor will be 230 Volts, Single Phase





## Electric Combination With Water Ejector

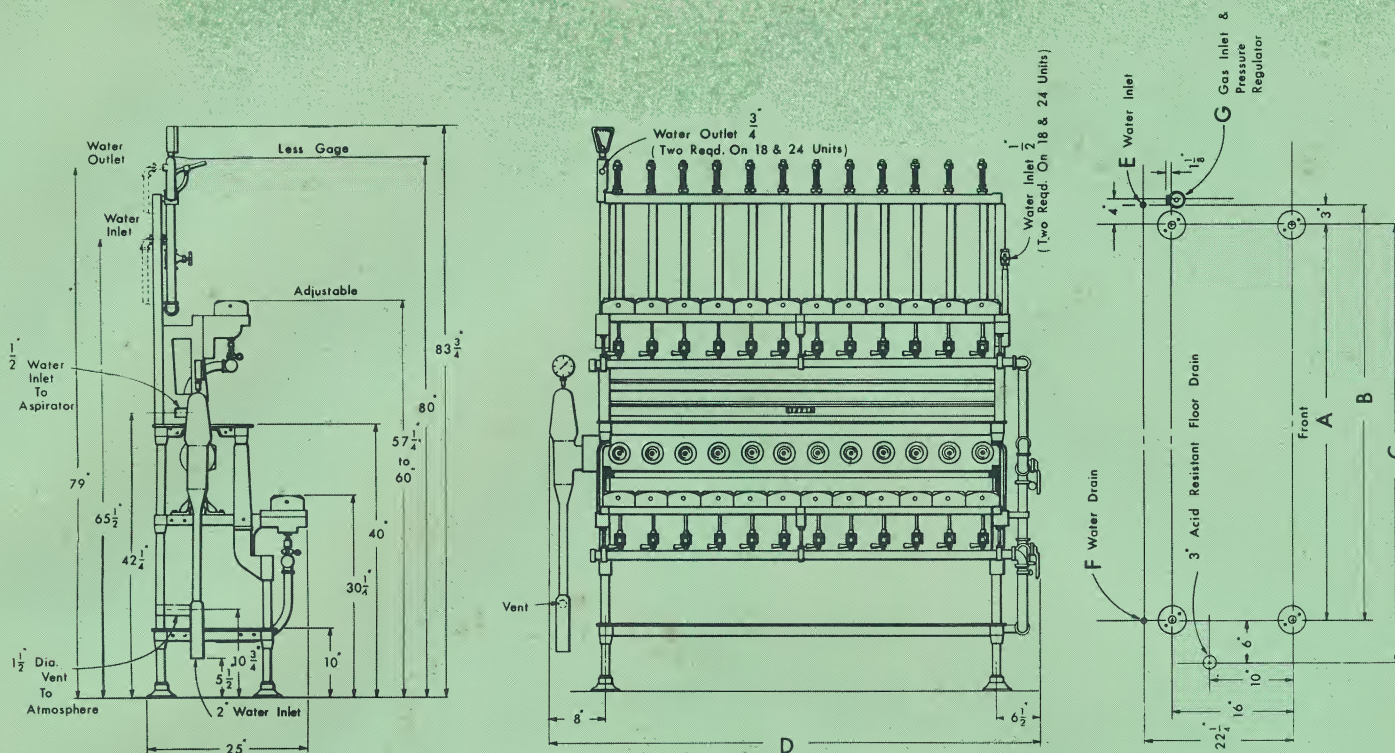
Capacity	Inches						Max. K.W.
	A	B	C	D	E	F	
6	29	32	35	45	1 1/2	3 1/4	7.0
12	59	62	65	75	1 1/2	3 1/4	14.0
18	90	93	96	106	1 1/2	1	21.0
24	122	123	128	138	3 1/4	1	28.0



## Electric Combination With Air Ejector

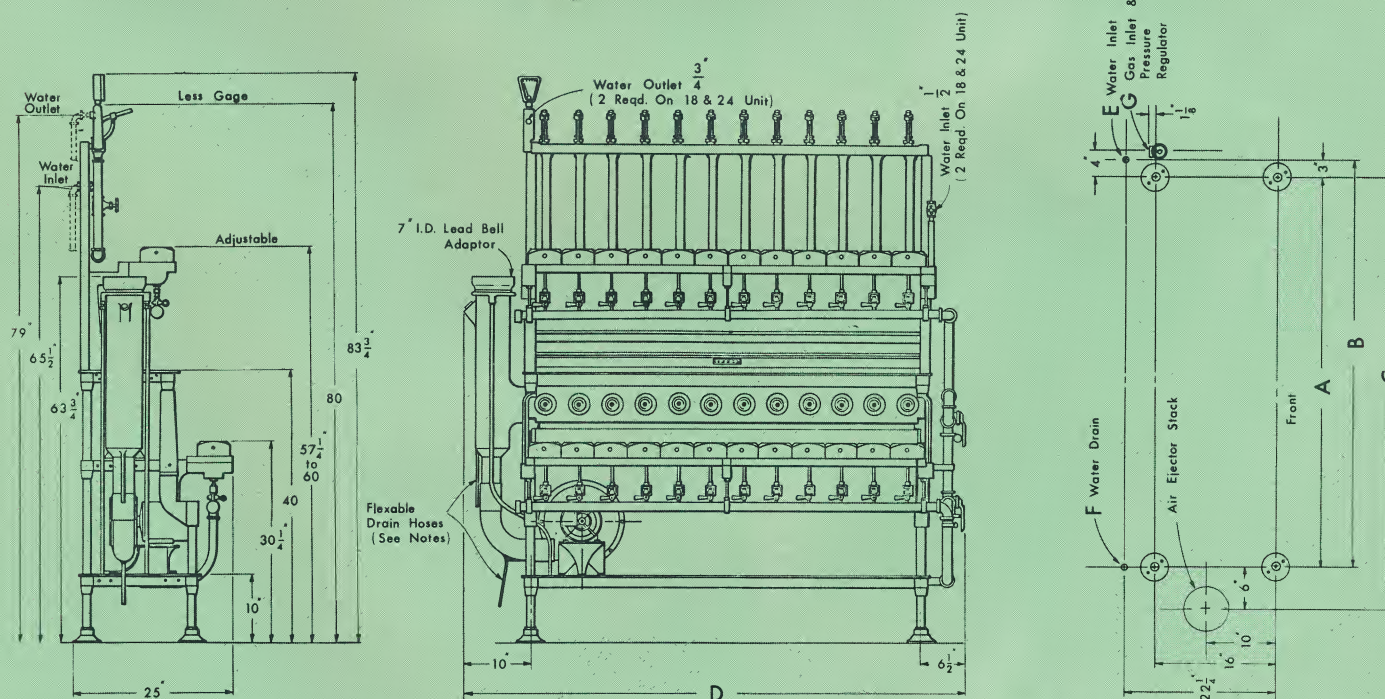
Capacity	Inches						Max. K.W.
	A	B	C	D	E	F	
6	29	32	35	45 1/2	1 1/2	3 1/4	7.0
12	59	62	65	75 1/2	1 1/2	3 1/4	14.0
18	90	93	96	106 1/2	1 1/2	1	21.0
24	122	123	128	139 1/2	3 1/4	1	28.0





## Gas Combination With Water Ejector

Capacity	Inches							Gas Consumption
	A	B	C	D	E	F	G	
6	29	32	35	45	1 1/2	3/4	1 1/2	48 C.F./hr
12	59	62	65	75	1 1/2	3/4	1 1/2	86 C.F./hr
18	90	93	96	106	1 3/4	1	1	144 C.F./hr
24	122	123	128	138	1 3/4	1	1	288 C.F./hr

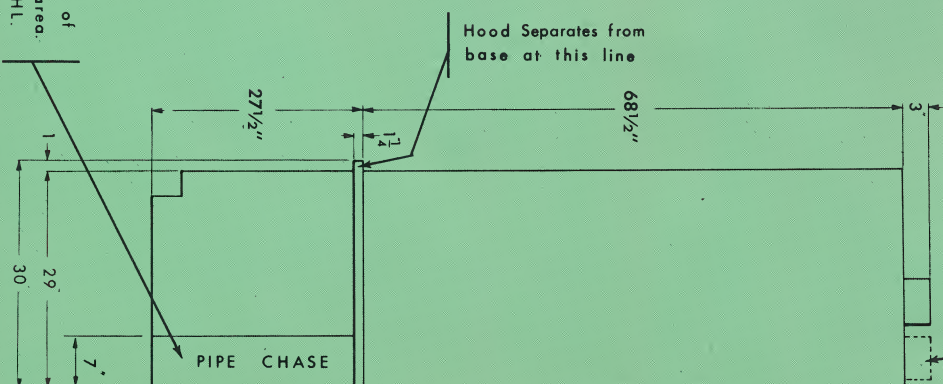
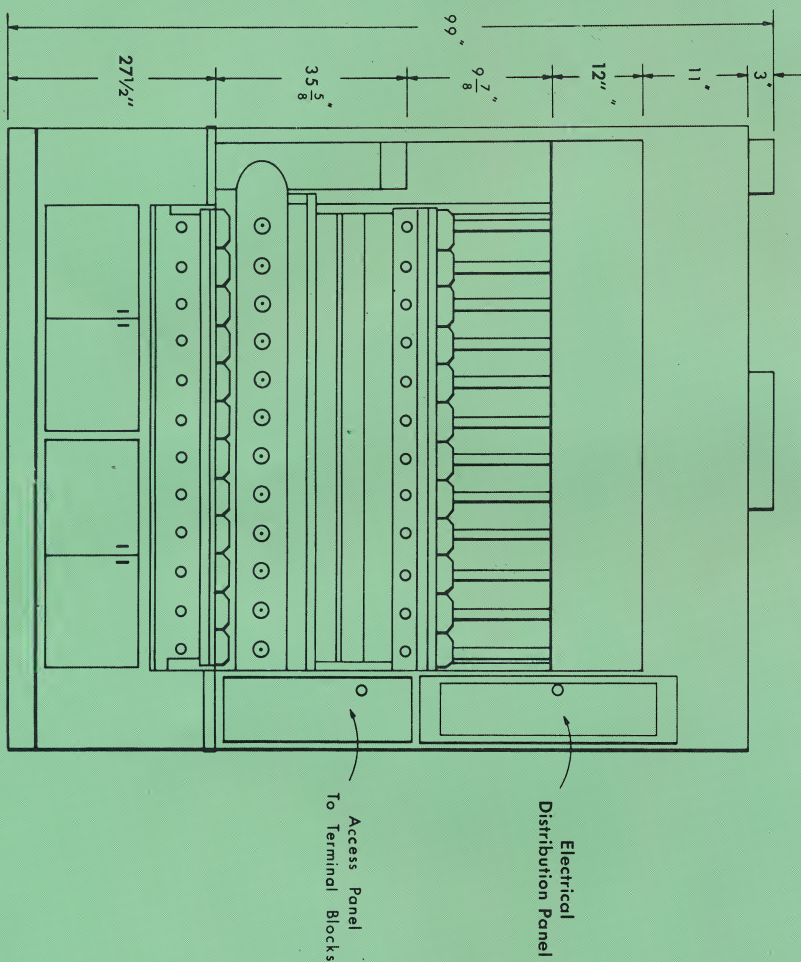


## Gas Combination With Air Ejector

Capacity	Inches							Gas Consumption
	A	B	C	D	E	F	G	
6	29	32	35	45	1 1/2	3/4	1 1/2	48 C.F./hr
12	59	62	65	75	1 1/2	3/4	1 1/2	86 C.F./hr
18	90	93	96	106	1 3/4	1	1	144 C.F./hr
24	122	123	128	139 1/2	1 3/4	1	1 1/4	288 C.F./hr



	A	B	C	D
6 UNIT	4'-11 1/2"	1'-11 3/4"	5"	1'-0"
12 UNIT	7'-5 1/2"	3'-2 3/4"	5"	1'-6"
18 UNIT	10'-0 1/2"	4'-6 1/4"	5"	1'-6"



## Hooded Model

Drill thru pipe chase (end panel) for entrance of services or stub-in thru floor in pipe chase area. Services required same as standard KJELDAHL.





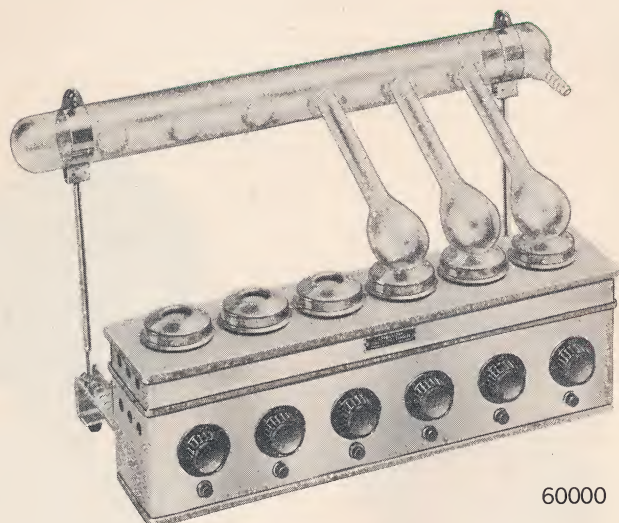
## LABCONCO MICRO KJELDAHL UNITS

LABCONCO offers perfect companion units for micro Kjeldahl digestions and distillations. These units are completely factory assembled. No need to waste time in assembly or disassembly, and no need to worry about the accuracy of your results. With LABCONCO Micro Kjeldahl units you just plug in and you're ready for accurate determinations.

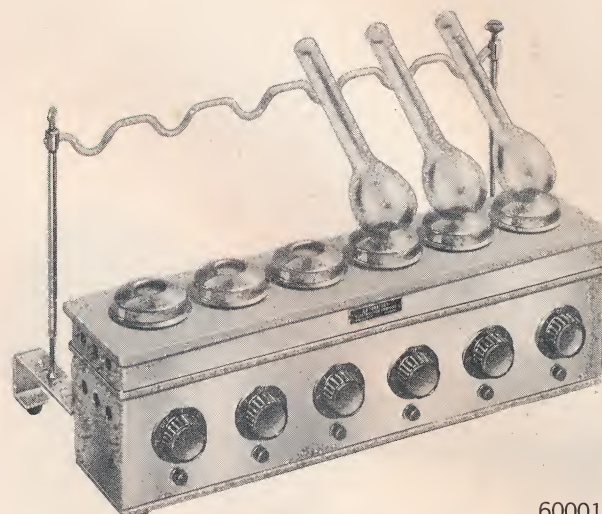
- MICRO KJELDAHL DIGESTOR—ONLY \$189.75—*complete and ready to plug in and use*
- MICRO KJELDAHL DISTILLATION UNIT—ONLY \$395.00—*complete and ready to plug in and use*
- FAST
- ACCURATE
- COMPACT



## MICRO KJELDAHL DIGESTOR / *features and use*



60000



60001

LABCONCO Micro Kjeldahl Digestors have become the standard for this determination, replacing the electric strip heater and gas heated models. LABCONCO Micro Kjeldahl Digestor has full range (0% to 100%) infinite heat control on each of the six electric heaters. Designed for digestions in 30 ml flasks (100 ml flasks when specified). May be furnished with a glass manifold for water ejection of fumes, or with a simple flask support for operation in a hood.

The all-stainless-steel cabinet is 19" x 4" x 7½". Three lengths of compressed asbestos assure excellent heat insulation and corrosion resistance. Two rear brackets provide adjustable mounting for the glass manifold or flask support rod.

The correct range for Micro Kjeldahl digestions is between 0 and 200 watts (115 volts). Each 200 watt heater consists of a circular cement-embedded element covered with a removable stainless steel cone. The

flask is held securely in the raised cone and heat is directed to the flask bottom. The cone has a 26 mm opening for 30 ml flasks and a 42 mm opening when 100 ml flasks are specified.

Heater controls are special units mounted and protected in the lower compartment. Each heater has its own control and pilot light. A five foot, three-wire cord and plug are provided.

Catalog Number	Description	Ship. Wt.	Price
60000	Micro Kjeldahl Digestor with glass manifold (30 ml unless 100 ml is specified) 115 volt, AC	18 lbs.	\$189.75
60200	Same as 60000 except 220 volt, AC	18 lbs.	212.00
60001	Micro Kjeldahl Digestor with flask support rod (30 ml unless 100 ml is specified) 115 volt, AC	17 lbs.	173.25
60201	Same as 60001 except 220 volt, AC	17 lbs.	196.00

## Micro Kjeldahl flask carrier

Cuts glassware breakage and helps prevent spillage of valuable samples.

Organizes and speeds up routine Micro Kjeldahl procedures with both 30 ml or 100 ml flasks.

Constructed of heavy polyvinyl plastic coated wire and a ball bearing spin base.

The bottom base plate remains stationary while the carrier may be turned 360° in any direction. Can be turned easily with one flask or completely loaded.

Unit will hold 12 flasks upright at 20° loading angle and 16 flasks in an upside down drying position at the same time.



Catalog Number	Description	Ship. Wt.	Price
65050	LABCONCO Micro Kjeldahl flask carrier, constructed of polyvinyl coated wire and complete with a ball bearing spin base	4½ lbs.	\$29.50



## MICRO KJELDAHL DISTILLATION UNIT / *features and use*

No more time wasted in assembly and disassembly of a "homemade" distillation unit! Now you can use a complete, compact distillation unit that's factory-built by LABCONCO just for the job. Just plug it in—and you're all set for accurate determinations!

LABCONCO's new Micro Kjeldahl Distillation Unit is a *one-piece* still of borosilicate glass, mounted on a tough chemical-resistant plastic console that houses all operating controls. It's the perfect companion apparatus to the LABCONCO Micro Kjeldahl Digestion Unit. It is designed for quick steam distillation of micro amounts of nitrogen. After the standard sulfuric acid digestion of a 1 to 50 mg. (amount depends on technique) sample, 2 ccs. or less of the diges-

tion is transferred to the micro still for distillation. The unit can remove as low as 10 gamas (micrograms)  $\pm 10\%$  of nitrogen with good techniques. Possible human error decreases rapidly as the quantities increase. Ideal range is from 0.15 mgs. to 1.5 mgs. of nitrogen. This can be adjusted by proper aliquoting. This unit is a companion apparatus to the LABCONCO Micro Kjeldahl Digestion Unit. Although designed for distillation of micro amounts of nitrogen, the new unit can also be used for other steam distillations that do not exceed the volume limitations of the distilling chamber.

Here are the highlight features of the new LABCONCO Micro Distillation Unit:

### COMPLETE RECOVERY

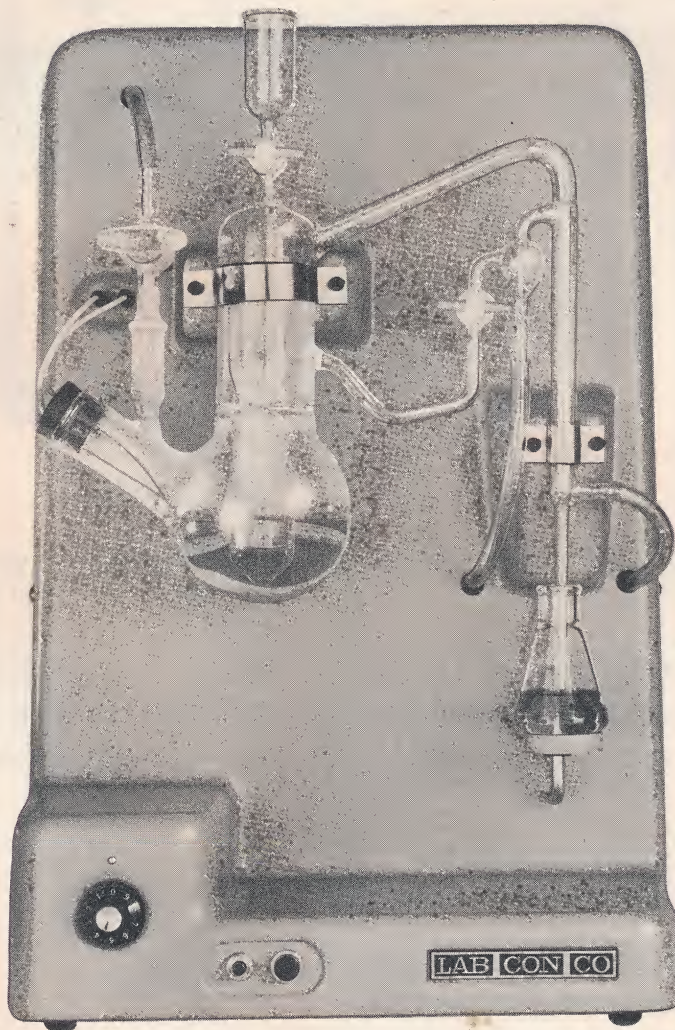
Nitrogen is distilled by steam in micro quantities and in ranges obtained by such techniques as those of Pregl, A.S. T.M. Committee on Micro Chemical Apparatus, Kirk, the A.O.A.C. and others.

There are no rubber or plastic tubing connections to crack, corrode, or leak; LABCONCO's new unit is leakproof because it is made entirely of glass and chemically inert Teflon stopcocks.

### COMPACT DESIGN

Modern and streamlined, the new LABCONCO unit is compatible with other precision apparatus in your laboratory. It weighs less than 12 lbs., occupies less than one square foot of bench space. Dimensions are 20 $\frac{3}{4}$ " high x 14" wide x 10" deep.

The all-glass still is built in one piece, and easily mounts to the plastic console with four vinyl wing nuts. The console conceals all operating controls and utility lines. Unit comes complete with adjustable swing-out stand to hold receiving flask at proper angle and level.



### SPEED

Distills all nitrogen from a digest in 2 to 3 minutes. Operator can run almost continuously, can keep up with multiple digestion, because unit maintains a constant head of steam during sample change.

### PURGING

The LABCONCO Distillation Unit has a built-in glass aspirator to purge the spent sample after determination is completed. The twist of a stopcock draws the sample and wash water down the drain. The water used for cooling of the condenser is reused for aspirating the spent sample. Reset the Teflon stopcock and you're ready for the next sample.

### HEAT

Immersible electric heater gives efficient, speedy heat. Steam generation starts very rapidly from a cold start. It stops immediately with the snap of a switch. Infinite heat control allows operator complete flexibility in controlling rate of steaming. Electrical input to heater controlled by a built-in autotransformer.

### prices & specifications

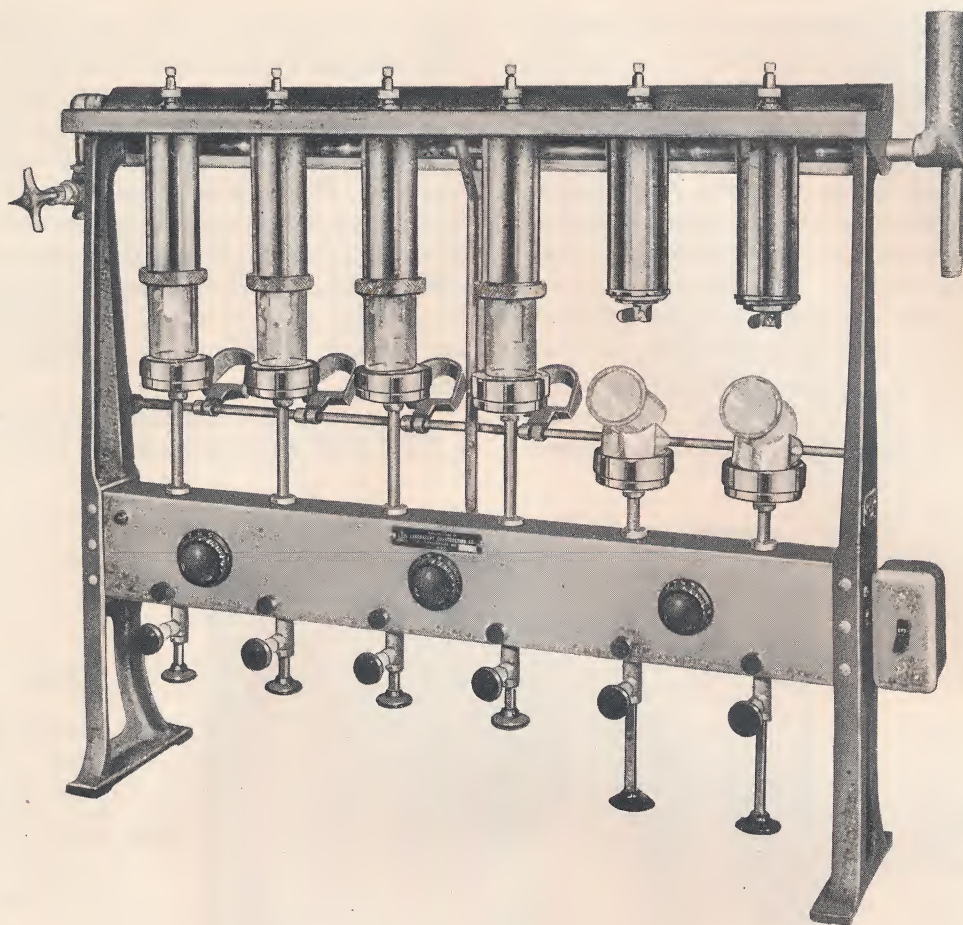
LABCONCO Micro Kjeldahl Distillation Unit complete with all glassware, console, electrical controls, heater, cord and plug.

Catalog  
Number  
65000

Ship. Wt.  
28 lbs.

Price  
\$395.00





## THE GOLDFISCH FAT EXTRACTOR

For the determination of fat and oil content by solvents (other than halogenated hydrocarbons) whose boiling range does not exceed 85° C. Over 40 states use this apparatus in official control work, and it is listed in A.O.A.C. methods.

- CUTS EXTRACTION TIME  
*completes determination in 3-4 hours*
- RECLAIMS MOST OF THE SOLVENT  
*during concentration of the extract!*
- ELIMINATES HAZARDS OF EXTRACTION  
*with numerous safety features!*
- ACCURATE REPRODUCIBLE RESULTS
- DESIGN ELIMINATES GLASSWARE AND HOSE CONNECTIONS

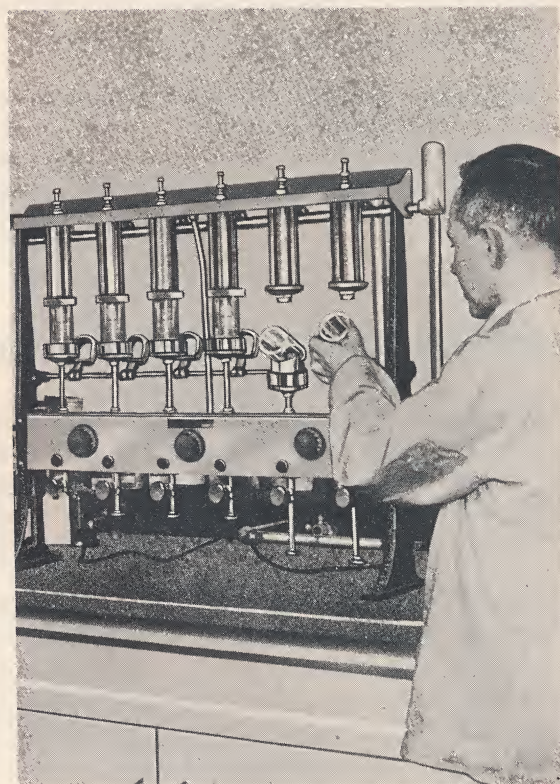


# GOLDFISCH FAT EXTRACTOR

general information & use

## WHAT IS SOLVENT EXTRACTION?

Conventional solvent extraction involves placing the sample between a boiling solvent and a cold surface. As boiling continues, the solvent vaporizes, condenses on the cold surface, and washes back through the sample into the boiling solvent below. There are many such extractors, and all but the Goldfish Fat Extractor involve hot plates and an assembled collection of glass-ware, condensers, rubber hose, clamps and support rods.



## SIX PROBLEMS OF DETERMINING FAT AND OIL CONTENT AND HOW LABCONCO SOLVES THEM

**PROBLEM 1:** How to reduce extraction time (usually 16 hours or at least overnight).

**ANSWER:** *The efficient refluxing system washes the sample at a rate permitting accurate determination in 3 to 4 hours. Many laboratories run 2 groups per day and another overnight at lower heat.*

**PROBLEM 2:** How to overcome the problems of breakage and awkward manual operations with intricate glass assemblies.

**ANSWER:** *The Goldfish system is unique in that the condenser assembly is of rigid metal construction and does not move up and down. The large mouth solvent beaker is attached to the condenser with a quick easy motion. The heater is then raised to the bottom of the beaker.*

**PROBLEM 3:** How to assure safety in extractions using volatile solvents.

**ANSWER:** *Goldfish extractors have built-in safety. The master switch is of the mercury type and the heaters are 100 w., cement embedded. The condensers have a release valve to prevent explosion, and the absence of glass in the condenser system prevents breakage of solvent containers over the electric heater. Most laboratories have no fear of overnight extractions on the Goldfish equipment.*

**PROBLEM 4:** How to overcome incomplete extraction because of "channeling" of solvent through sample.

**ANSWER:** *The Goldfish Condenser is heavy brass with an inner cone which dwindles to a crown-like*



## GOLDFISCH FAT EXTRACTOR / *general information and use*

point over the sample container. Condensate drops enter sample in well distributed pattern.

**PROBLEM 5:** How to correlate data with other laboratories.

**ANSWER:** Several thousand Goldfish extractors are in use today in industry, government and university laboratories. Equipment is only part of accuracy, but the universal use of this extractor helps

minimize variation between laboratories.

**PROBLEM 6:** How to maintain a continuous flow of solvent through the sample.

**ANSWER:** By superior design the Goldfish Extractor maintains a continuous (not batch) flow of condensate through the sample. An atmosphere which is 100% saturated with solvent surrounds the sample at all times.

## PROVIDES FASTEST...SAFEST...MOST ACCURATE RESULTS

1. Operation of the Goldfish Solvent Extractor begins and ends with the beaker. It is the solvent chamber. It is weighed before the process of extraction begins and after final evaporation. The increase in weight is an absolute measure of the amount of substance extracted.

2. But between the two weighings of the beaker, the following important process takes place: First, the sample is placed in an alundum cup, 22 mm x 80 mm, (or wrapped in filter paper) and placed in a pyrex glass, open-end, sample container. This container is inserted with a one motion operation between clips to hold it in the heavy metal condenser and align it for best flow of condensate.

3. The selected solvent is placed in its pyrex beaker—47 mm x 84 mm high. This beaker has a flanged and ground top for locking it to the condenser by means of a lock-ring with cork gasket inserts.

4. Heat from the 100 watt, solid-disc element is applied by sliding the heater housing upward.

5. As the solvent vaporizes and rises into the conden-

ser, air pressure is relieved by an automatic release valve which resets itself and allows a closed system of extraction.

6. The condensing surfaces inside the condenser head channel condensate quickly and directly to the sample container top, and distribute the flow to all sides of the container. This makes the "wash through" rapid and minimizes loss of solvent.

7. When extraction is complete, the sample container is removed and replaced with a reclaiming tube. Heat transfers solvent into the reclaiming tube, leaving oil in the beaker.

8. Drying of the extract is accomplished efficiently with a special swing beaker holder which inclines the beaker (containing the extract) at a slight angle in the warm air above the heater. When all but the last few milliliters of solvent are evaporated, the beaker with extract is placed in drying oven and then weighed and compared with tare weight of beaker.

9. The difference is the amount of substance extracted.

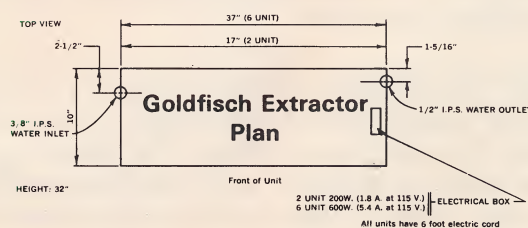
## GOLDFISCH FAT EXTRACTOR / *prices and dimensional data*

Catalog Number	Description	Ship. Wt.	Price
35001	6-unit size, complete with glassware	90 lbs.	\$585.00
35003	2-unit size, complete with glassware	59 lbs.	\$285.00

Shipped complete with an extra set of glassware. The Goldfish Extractor requires only water and electrical connections.

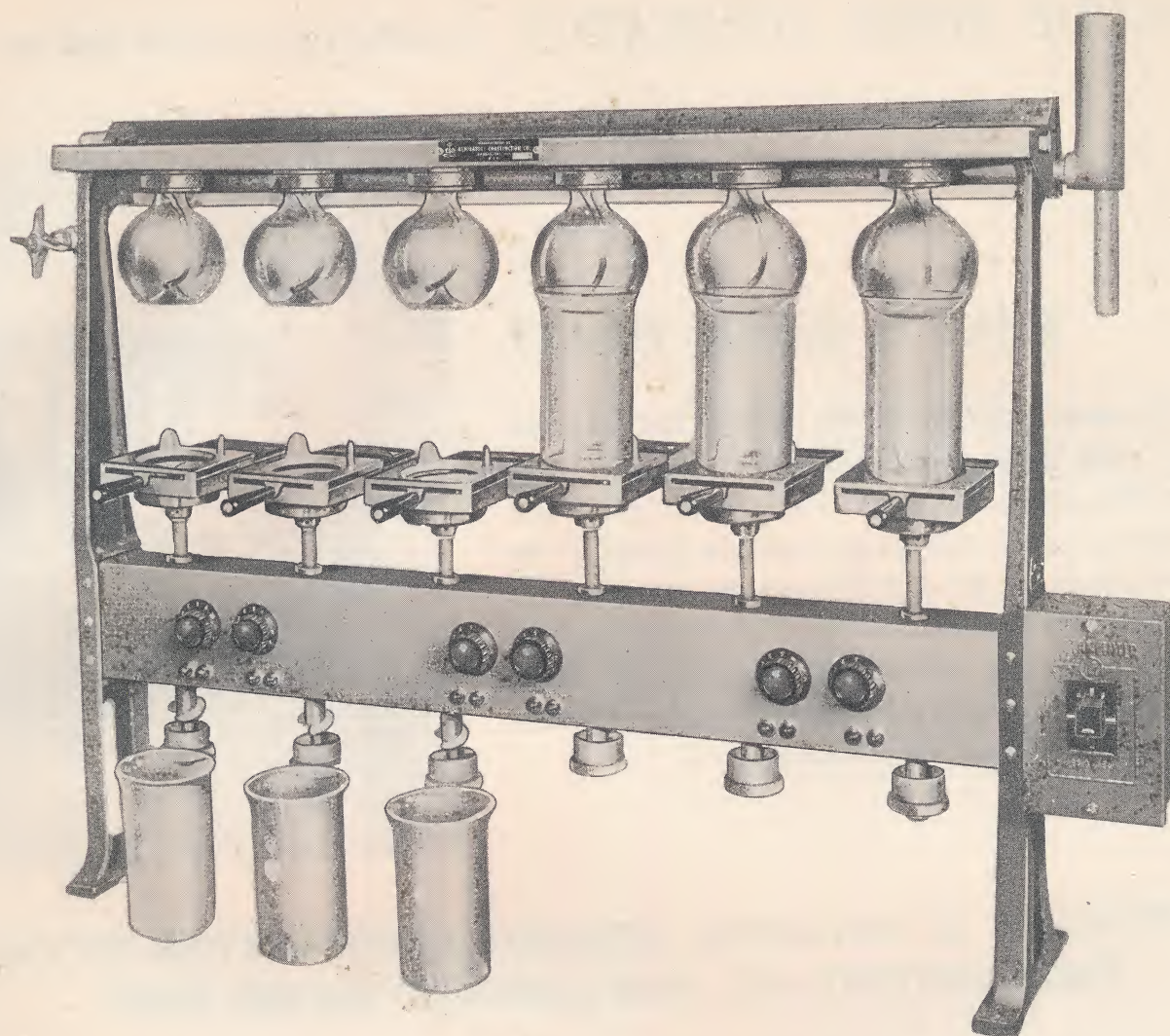
**IMPORTANT: Unit operates on 115V AC (100W per heater). The following transformer is offered for use with 230 volts.**

13156	Transformer	21 lbs.	\$ 67.00
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Sturdy iron support brackets and other construction features give entire unit exceptional rigidity and durability.





## CRUDE FIBER APPARATUS

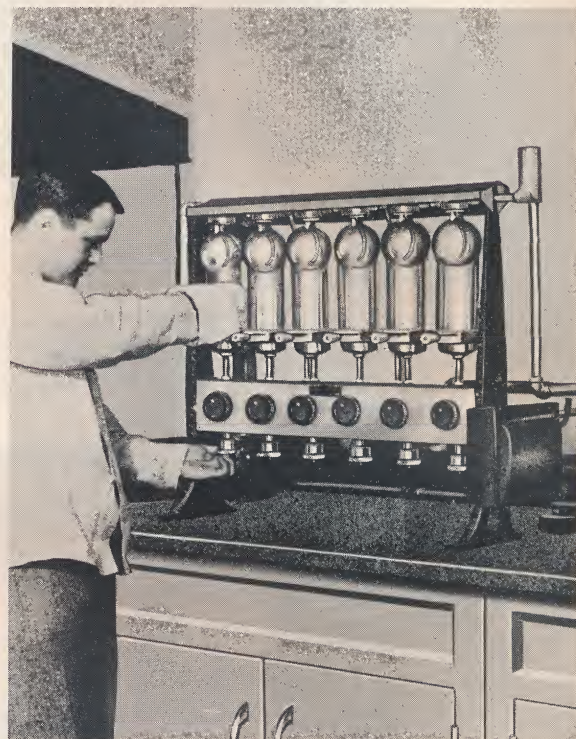
Condenses the crude fiber in feed, food and other agricultural products. The reflux condenser is designed to operate with speed, accuracy and safety. This unit is widely used by state, federal and industrial control labs throughout the United States and abroad.

- KEEPS ACID AND ALKALI AT CONSTANT VOLUME
- MINIMIZES FROTHING
- KEEPS BOILING CONTAINER STEADY DURING BUMPING
- "WASHING ACTION" HELPS KEEP SAMPLE FROM STICKING TO SIDE OF BEAKER
- SOLID, ONE-PIECE CONSTRUCTION



## WHAT IS CRUDE FIBER?

In the sense used here, Crude Fiber is the *roughage* in food . . . the bulky, indigestible part of food, such as cellulose. The amount of Crude Fiber in any particular food is determined by subjecting a sample of food to the simulated action of the digestive system. Samples are boiled in acid, washed, and boiled in alkali and washed. Remaining solids are isolated and termed crude fiber. This apparatus is concerned with the boiling or reflux digestion phase of this determination.



## FIVE PROBLEMS OF OBTAINING ACCURATE DETERMINATION OF CRUDE FIBER CONTENT AND HOW LABCONCO SOLVES THEM

**PROBLEM 1:** How to keep acid and alkali at constant volumes during the two boiling stages of simulated digestion.

**ANSWER:** *The Labconco Crude Fiber Apparatus solves this with a special condenser designed to make a tight seal above the boiling digest. This keeps volume constant.*

**PROBLEM 2:** How to minimize frothing and foaming during simulated digestion.

**ANSWER:** *A special boiling container in Labconco's Crude Fiber Apparatus solves this problem. This boiling container is a tall form beaker which allows plenty of room for foam buildup, and has straight sides so that down-flowing condensate can break up the foam.*

**PROBLEM 3:** How to keep the boiling container in position on the hot plate when contents begin to bump.

**ANSWER:** *During digestion the beaker is locked rigidly between the heater and the condenser bulb.*

*The beaker cannot bump or move, yet is disengaged with a twist of the wrist.*

**PROBLEM 4:** How to keep particles of the sample from sticking to the sides of the container and not condensing when frothing and bumping occur.

**ANSWER:** *The Labconco unit is so designed that some of the condensate flows back down the sides of the beaker and washes the particles back into the reaction. This "washing action" eliminates the necessity of swirling the flask by hand as is required on the older style Crude Fiber equipment.*

**PROBLEM 5:** How to overcome the awkward combination of hot plates, rubber hoses and glassware found in most crude fiber apparatus.

**ANSWER:** *Labconco has eliminated this by designing a solid one piece apparatus which offers simple, one step connections without troublesome hose connections. A busy laboratory will appreciate the real savings in time and broken glassware.*



## CRUDE FIBER APPARATUS / *prices and accessories*

### OPERATES SMOOTHLY...SWIFTLY...THROUGHOUT A LONG LIFE!

1. The process of operation begins when a sample and solution go into one of the 600 cc lipless beakers. The beaker is placed on the heater, and heater is raised until a spring-tension connection is made between beaker and condenser. (Locking beakers rigidly in this manner prevents bumping action when boiling begins.)
2. Both beakers and condensers are made of heavy pyrex glass which permits full vision and keeps the digestion process free of metal contact.
3. Now, heat is applied. As the temperature increases, the solution reaches the condenser, whereupon the process of refluxing takes place.
4. The condenser has an inverted cone base. This cone

directs the condensate back toward the sides of the beaker, which helps wash down froth and fiber that would otherwise adhere to the beaker sides.

5. At this point, full range input control, which permits stepless heat regulation, becomes important. Should the condensate begin to boil too actively, control is available to adjust the heater quickly. Only such full, individual heat control allows proper refluxing without frothing.

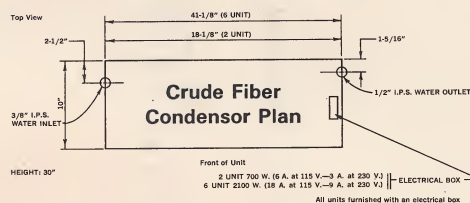
6. The input control also eliminates the difficulty so often experienced with sliding rheostats. For instant heat shutoff, a sliding steel baffle plate is provided to be pushed over the heater.

#### *prices*

Catalog Number	Description	Ship. Wt.	Price
30001	6-unit size (includes 12 beakers), 115 volt	117 lbs.	\$575.00
30005	2-unit size (includes 4 beakers), 115 volt	61 lbs.	265.00
30002	6-unit size, 220 volt	117 lbs.	575.00
30006	2-unit size, 220 volt	61 lbs.	265.00

Shipped complete with an extra set of glassware. The Crude Fiber Apparatus requires only water and permanent type electrical connections for use.

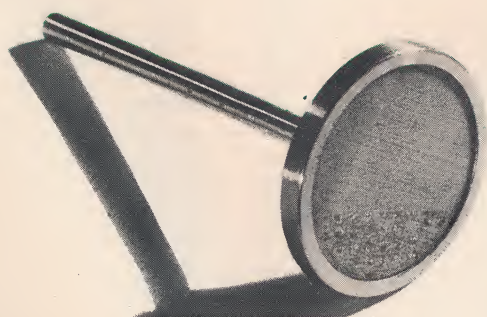
#### *dimensional data*



The LABCONCO Crude Fiber Apparatus is shipped complete and requires only water and permanent-type electrical connections as indicated here.

#### *accessories*

### THE OKLAHOMA STATE FILTER SCREEN



This filter screen assembly is made entirely of stainless steel and consists of a one-piece funnel with a threaded cap. The cap holds a 200-mesh stainless steel screen against a perforated back-up plate which makes replacement of the screen very easy. The entire assembly is machined smooth and assembled to minimize fiber loss.

Catalog Number	Description	Price
55210	Oklahoma State Filter Complete	\$26.50
55201	Replacement Screen Only	2.50
55202	Back-Up Plate Only	3.40

### CALIFORNIA MODIFIED BUECHNER FUNNEL



This is a standard polyethylene two-piece Buechner Funnel, modified by the addition of a 200-mesh stainless steel screen which is firmly heat-sealed into the bottom of the upper section.

Catalog Number	Description	Price
55100	California Modified Buechner Funnel Complete	\$10.00
55101	Upper Section Only (with screen)	9.25



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20735	68	46601	66	55210	80	70511	31
20736	68	47082	12	60000	73	70512	31
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28050	7	47191	12	70302	21	80450	52
28051	7	47192	12	70303	21	80475	55
28052	7	47193	12	70306	21	80500	55
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28060	7	50001	45	70309	22	80625	53
28061	7	50002	41	70310	22	80700	55
28062	7	50003	41	70311	22	80750	37, 41, 45







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